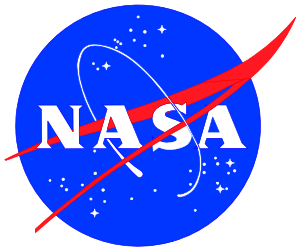
CONTRACTORS ROAD HEAVY EQUIPMENT AREA
SWMU 055
CORRECTIVE MEASURES IMPLEMENTATION PROGRESS REPORT
KENNEDY SPACE CENTER, FLORIDA

Prepared for:



National Aeronautics and Space Administration
Kennedy Space Center, Florida

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Revision 1

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PROFESSIONAL CERTIFICATION AND APPROVAL

Based on the information contained in the attached document titled Contractor's Road Heavy Equipment Area SWMU055 Correctives Measures Implementation Progress Report dated August 2015, I hereby certify that the scope of work described in the above-referenced document was performed in accordance with appropriate hydrogeologic standards of practice.

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ABBREVIATIONS AND ACRONYMS

ADP	Advanced Data Package
BLS	Below Land Surface
cDCE	cis-1,2-Dichloroethene
CMS	Corrective Measure Study
CMI	Corrective Measures Implementation
CRHE	Contractor's Road Heavy Equipment
CVOC	Chlorinated Volatile Organic Compound
1,1-DCE	1,1-Dichloroethene
DPT	Direct-Push Technology
EE	Engineering Evaluation
EVS	Environmental Visualization System
EZVI	Emulsified Zero-Valent Iron
ft	feet
FDEP	Florida Department of Environmental Protection
GCTL	Groundwater Cleanup Target Level
HCP	High Concentration Plume
HS	Hot Spot
HS1	Hot Spot 1
HS2	Hot Spot 2
KEDD	KSC Electronic Data Deliverable
KSC	John F. Kennedy Space Center
LCP	Low Concentration Plume
LTM	Long-Term Monitoring
LUCIP	Land Use Control Implementation Plan
MIP	Membrane Interface Probe
MNA	Monitored Natural Attenuation
NADC	Natural Attenuation Default Criteria
NASA	National Aeronautics and Space Administration
PCE	Tetrachloroethene
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SVE	Soil Vapor Extraction
SWMU	Solid Waste Management Unit
SZ	Source Zone
TCE	Trichloroethene

ABBREVIATIONS AND ACRONYMS (continued)

VAB	Vehicle Assembly Building
VC	Vinyl Chloride
VOC	Volatile Organic Compound

SECTION I

INTRODUCTION

This Corrective Measures Implementation (CMI) Progress Report, Revision 1, for Contractor's Road Heavy Equipment (CRHE) Area Solid Waste Management Unit (SWMU) Number 055 was prepared by Geosyntec Consultants (Geosyntec) for the National Aeronautics and Space Administration (NASA) under contract number NNK09CA02B, Delivery Order NNK09CA62D and Project Number PCN ENV-2324. This CMI Progress Report documents: (i) activities conducted as part of supplemental assessment activities completed from June 2009 through November 2014; (ii) Engineering Evaluation (EE) Advanced Data Packages (ADPs); and (iii) recommendations for future activities related to corrective measures at the Site.

Applicable meeting minutes are provided as Appendix A. The following EE ADPs for CRHE are included with this CMI Progress Report:

- Supplemental Site Characterization ADP (Step 1 EE) (Appendix B)
- Site Characterization ADP (Step 1 EE) for Hot Spot 1 (HS1) (Appendix C)
- Remedial Alternatives Evaluation (Step 2 EE) ADP for HS1 (Appendix D)
- Interim Measures Work Plan (Step 3 EE) ADP for HS1 (Appendix E)
- Site Characterization ADP (Step 1 EE) ADP for Hot Spot 2 (HS2), High Concentration Plume (HCP), and Low Concentration Plume (LCP) (Appendix F)

A summary of direct-push technology (DPT) and groundwater monitoring well sampling results are provided in Appendices G and H, respectively. The Interim Land Use Control Implementation Plan (LUCIP) is provided as Appendix I. Monitoring well completion reports, other applicable field forms, survey data, and analytical laboratory reports are provided as Appendices J through M, respectively, in the electronic copy of this document. Selected Site photographs are provided in Appendix N. The interim groundwater monitoring plan and document revision log are included as Appendices O and P, respectively. KSC Electronic Data Deliverable (KEDD) files are provided on the attached compact disk.

SECTION II

SITE LOCATION AND BACKGROUND

2.1 SITE LOCATION AND OVERVIEW

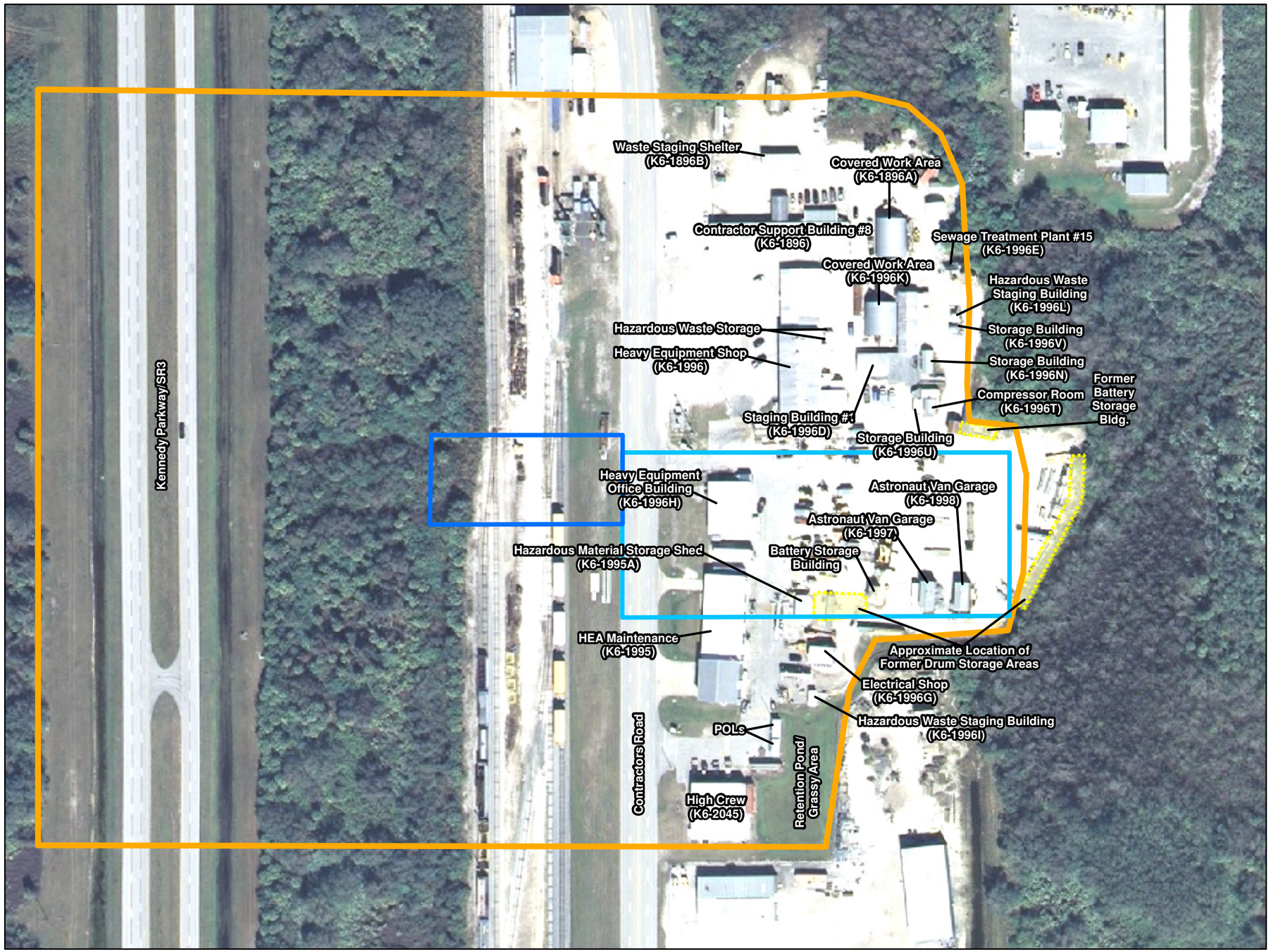
The CRHE Area is located at the John F. Kennedy Space Center (KSC), Florida, and includes SWMU Number 055 under KSC's Resource Conservation and Recovery Act (RCRA) Corrective Action program. The area encompassed by SWMU055 is approximately 23 acres in size and is located east of Highway 3 on either side of Contractor's Road approximately one-half mile north of Schwartz Road. The CRHE Area has been used for a variety of operations including heavy equipment storage and maintenance dating back to the construction of NASA's Vehicle Assembly Building (VAB), and for staging of regulated and hazardous waste. Currently, the CRHE Area is used for heavy equipment storage and maintenance; hazardous wastes are no longer stored on Site. The area consists of numbered buildings and support structures, including the Heavy Equipment Maintenance Shop (K6-1995), Hazardous Material Storage Shed (K6-1995A), Heavy Equipment Office Building (K6-1996H), Battery Storage Building (K6-1996M), and Astronaut Van Garages (K6-1997) (Figure 2-1). Portions of the Site are paved, but the majority of the Site is gravel or dense woods/wetlands. There are many underground utilities at the Site and thick road base in some areas to support the movement and storage of heavy equipment at the Site.

2.2 SITE BACKGROUND AND RCRA FACILITY INVESTIGATION SUMMARY

A RCRA Facility Investigation (RFI) was performed in the 1990s to characterize the nature and extent of environmental impacts through soil, sediment, surface water, and groundwater sampling. Volatile organic compounds (VOCs) were detected above regulatory screening criteria in nine of seventeen shallow and intermediate monitoring wells. Additional locations were selected for groundwater sampling using a Waterloo Profiler sampler driven by a DPT rig to further characterize the extent of VOC groundwater impacts. Based on DPT sampling results, four additional intermediate monitoring wells were installed resulting in a permanent well network consisting of 15 shallow monitoring wells, screened between 0.5 and 17 feet (ft) below land surface (BLS), and five intermediate monitoring wells, screened between 30 and 50 ft BLS. An approximate five acre plume was identified, with the highest concentrations observed between 15 and 45 ft BLS; however, no source area was identified. During these activities, some Site monitoring wells were sampled and analyzed for 1,4-dioxane. The results were non-detect with detection limits elevated over the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level (GCTL).

In 2000, the Corrective Measure Study (CMS) Report concluded that chlorinated volatile organic compounds (CVOCs) were attenuating and the vinyl chloride (VC) GCTL would be met in approximately ten years, resulting in no recommendations for active corrective measures. The selected remedy was monitored natural attenuation (MNA) with groundwater monitoring, which was conducted from 2001 to 2008, with incorporation of the Site into the VAB long-term monitoring (LTM) program in 2005.

Increasing concentrations of cis-1,2-dichloroethene (cDCE) and VC were observed in CRHE-IW0019I from 2007 to 2009 and supplemental assessment activities were recommended to further evaluate the presence and source(s) of CVOCs in groundwater at the Site. In May 2010, the team approved discontinuing groundwater monitoring under the VAB LTM program at the Site until further assessment was completed.



Note: Historical Site Features were obtained from the 1999 RFI Report.

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Figure 2-1
Site Map

SECTION III

SUPPLEMENTAL ASSESSMENT ACTIVITIES

3.1 OVERVIEW

Supplemental assessment activities were conducted by Geosyntec from June 2009 through November 2014 to evaluate Site lithology and refine the delineation of the horizontal and vertical extents of the CVOC impacts to groundwater. Results of the supplemental assessment activities were presented to the Team in Step 1 ADPs presented during the June 2012, December 2013, and April 2015 Team Meetings which are provided in Appendices B, C, and F, respectively. The supplemental assessment included the following activities:

- Advancement of seven soil borings to an approximate maximum depth of 80 ft BLS to evaluate Site lithology.
- Collection of 2,338 DPT groundwater samples from 363 locations for mobile laboratory analysis of CVOCs (analytical results from DPT sampling are summarized in Appendix G).
- Collection of two membrane interface probe (MIP) profiles for subsurface detection of CVOCs and identification of the likely distribution of mass in the SZ.
- Installation and development of 18 new monitoring wells to augment the existing monitoring well network, including installation of CRHE-MW0040 (installed by others) to evaluate potential dragdown in the source area.
- Collection of three rounds of comprehensive water level measurements.
- Collection of groundwater samples from 25 monitoring wells during the 2012 groundwater sampling event and from monitoring well CRHE-MW0040 in July 2013 with laboratory analysis of the samples for CVOCs (analytical results from monitoring well sampling are summarized in Appendix H).
- Incorporation of groundwater assessment results into a comprehensive Site-wide Environmental Visualization Software (EVS) model to create isosurface contours and cross sections of CVOC impacts.

Monitoring well construction details are provided in Table 3-1 and the survey data and groundwater elevations are provided in Table 3-2. The monitoring well results for field water quality parameters are provided in Table 3-3.

3.2 SUMMARY OF SITE CONDITIONS

3.2.1 SITE LITHOLOGY

Lithologic conditions at the Site are generally consistent with conditions encountered at other KSC sites in the vicinity. The underlying lithology generally consists of: (i) medium sand and silty sand of varying color in the upper 8 to 10 ft BLS; (ii) fine to medium sand with shell from approximately 8 to 15 ft BLS; (iii) black and grey fine sand with increasing amounts of shell from approximately 15 to 50 ft BLS; (iv) grey silty sand with varying amounts of clay and shell from approximately 50 to approximately 77 ft BLS; and (v) fine silty sand with shell fragments from approximately 77 ft BLS to the maximum depth of penetration (80 to 82 ft BLS).

Overall, the lithology at the Site is primarily sand from ground surface to approximately 50 ft BLS, where the lithology transitions to a silty sand with varying amounts of clay. The silty sand with varying amounts of clay layer acts as a semi-confining layer beneath the Site. The lithology transition is based on visual observations, MIP results, and correlating DPT groundwater results.

3.2.2 SITE HYDROGEOLOGY

The permanent groundwater monitoring network for the Site is shown on Figure 3-1. Groundwater zones for this Site have been defined as follows: (i) shallow groundwater less than 15 ft BLS; (ii) intermediate groundwater from 25 to 50 ft BLS; and (iii) deep groundwater from 60 to 70 ft BLS. Water levels were collected in March 2012 and July 2013 to evaluate the groundwater flow in the shallow, intermediate, and deep groundwater zones at the Site.

Groundwater flow in the shallow zone (less than 15 ft BLS) was to the west in March 2012. Shallow groundwater flow has been influenced by wetlands that surround the Site to the north, east, and west; therefore, easterly shallow groundwater flow as seen in July 2013 is not unexpected. Shallow groundwater elevations varied from 0.27 to 0.98 ft BLS in March 2012 and from 2.96 to 1.94 ft BLS in August 2013. Groundwater flow in the intermediate zone (25 to 50 ft BLS) is generally to the west and southwest. The deep groundwater flow is toward the southwest (based on data from three monitoring wells). Groundwater flow velocity is estimated to be 28 ft/year in the shallow zone and 69 ft/year in the intermediate zone (based on specific capacity tests on shallow and intermediate wells during RFI).

The average horizontal groundwater gradient across the Site was estimated based on 2013 groundwater elevation data to be 0.015 ft/ft in the eastern shallow zone (based on well pair CRHE-IW0009S/CRHE-MW0024) and 0.001 ft/ft in the western shallow zone (based on well pair CRHE-IW0004S/CRHE-MW0030), 0.004 ft/ft for the intermediate zone (based on well pair CRHE-IW0004I/CRHE-MW0029), and 0.001 ft/ft for the deep zone (based on well pair CRHE-IW0014D/CRHE-MW0022).

3.2.3 SUMMARY OF SOIL CONDITIONS

As documented in FDEP's letter dated 25 February 2014, there are no identified soil issues and no further actions associated with soil at the Site are required.

3.2.4 SUMMARY OF GROUNDWATER IMPACTS

High frequency DPT groundwater sampling was conducted with the objective of vertical and horizontal delineation of: (i) LCP (CVOC concentrations greater than GCTLs); (ii) HCP (CVOC concentrations greater than Natural Attenuation Default Criteria [NADC]); (iii) hot spots (HSs) (CVOC concentrations greater than 10xNADCs); and (iv) the source zone (SZ) (approximate 1% TCE solubility or TCE concentrations greater than 11,000 micrograms per liter [µg/L]). Groundwater sampling activities completed to date delineated a site-wide LCP, separate HCPs in the northern and southern portions of the Site, and two HSs in the southern portion of the Site (Figure 3-2). Based on results from assessment activities conducted to date, impacts to the Site groundwater consist primarily of TCE, cDCE, and VC. The only other constituent detected at a concentration above its GCTL during supplemental assessment activities was 1,1-dichlorothene (1,1-DCE).

The LCP covers approximately 15 acres and extends from the eastern side of operational facilities along Contractor's Road to the western side of Kennedy Parkway. Groundwater impacts in the LCP are present from approximately 8 to 70 ft BLS.

The northern HCP is approximately one and a half acres and the southern HCP is approximately three acres for a combined area of approximately four and a half acres. CVOC impacts in the northern HCP are present from approximately 26 to 65 ft BLS and in the southern HCP from approximately 8 to 60 ft BLS. Maximum CVOC concentrations in groundwater samples from the northern HCP were: cDCE at 2,100 µg/L in DPT0036; and VC at 910 µg/L in DPT0036. TCE was not detected above laboratory reporting limits in the northern HCP. Maximum CVOC concentrations in groundwater samples from the southern HCP were: TCE at 3,000 µg/L in DPT0092; cDCE at 6,900 µg/L in DPT0211; and VC at 1,000 µg/L in DPT0220.

HS1, which encompasses approximately three acres, was defined to incorporate the identified TCE SZ. CVOC impacts are present from 8 to 50 ft BLS; however, the contaminant mass is concentrated from 36 to 40 ft BLS. MIP results correlate well with DPT groundwater data and observed Site lithology. Maximum concentrations observed in DPT groundwater samples collected from the HS1 area included TCE at 160,000 µg/L in DPT072, cDCE at 110,000 µg/L in DPT200, and VC at 19,000 µg/L in DPT200. CRHE-MW0040 was installed in the SZ (co-located with DPT072) to evaluate potential dragdown in this area and the non-detect results for VOCs confirmed the vertical delineation within the SZ. Within the HS1 area, the area with TCE

SZ concentrations covers 0.06 acres, the area with concentrations greater than 10xNADC (i.e., HS) is 0.43 acres, the area with concentrations greater than NADC (i.e., HCP) covers 0.78 acres, and the area with concentrations greater than GCTLs (i.e., LCP) covers 1.99 acres.

HS2 (cDCE and VC concentrations above 10xNADC), which covers approximately 0.5 acres, is also shown on Figure 3-2 and was defined as the area of cDCE and VC concentrations outside of HS1 exceeding 10xNADC. HS2 has CVOC impacts from 31 to 55 ft BLS, with the majority of the mass in the 31 to 45 ft BLS interval. The maximum DPT groundwater concentrations observed within the HS2 area include TCE at 3,400 µg/L in DPT0139, cDCE at 9,900 µg/L in DPT0231, and VC at 4,500 µg/L in DPT0271.

Table 3-1. Monitoring Well Construction Details
Contractors Road Heavy Equipment Area SWMU 055

Well ID	TOC Elevation	Bottom of Screen (ft)	Top of Screen (ft)
CRHE-IW0001S	5.74	13	3
CRHE-IW0002S	7.04	13	3
CRHE-IW0003S	5.83	12.5	2.5
CRHE-IW0004I	6.87	40	30
CRHE-IW0004S	6.98	13	3
CRHE-IW0005S	6.85	13	3
CRHE-IW0006S	5.64	12	2
CRHE-IW0007S	6.04	10.5	0.5
CRHE-IW0008S	5.52	12	2
CRHE-IW0009S	5.51	12	2
CRHE-IW0010S	4.46	11.5	1.5
CRHE-IW0011S	6.28	12	2
CRHE-IW0012S	6.65	12	2
CRHE-IW0013S	6.37	12.5	2.5
CRHE-IW0014D	5.23	70	65
CRHE-IW0014I	6.72	45	35
CRHE-IW0015I	6.41	45	35
CRHE-IW0016I	5.72	45	35
CRHE-IW0017I	5.37	35	25
CRHE-IW0018I	4.57	45	35
CRHE-IW0019I	5.32	45	35
CRHE-IW0020I	5.42	50	40
CRHE-IW0021I	2.54	50	40
CRHE-IW003M	7.04	50	45
CRHE-MW0022	4.6	70	60
CRHE-MW0023	5.45	70	60
CRHE-MW0024	4.00	15	5
CRHE-MW0025	4.16	35	25
CRHE-MW0026	4.36	40	30
CRHE-MW0027	4.51	50	40
CRHE-MW0028	5.58	45	35
CRHE-MW0029	4.56	50	40
CRHE-MW0030	5.26	15	5
CRHE-MW0031	5.17	50	40
CRHE-MW0032	5.78	50	40
CRHE-MW0033	6.35	50	40
CRHE-MW0034	5.4	40	30
CRHE-MW0035	5.34	50	40
CRHE-MW0036	4.92	15	5
CRHE-MW0037	5.07	35	25
CRHE-MW0038	3.23	15	5
CRHE-MW0039	3.22	35	25
CRHE-MW0040	NS	75	65

Notes:
1. ft indicates feet.
2. TOC indicates top of casing.
3. NS indicates not surveyed.

Table 3-2. Monitoring Well Survey Data and Groundwater Elevations
Contractors Road Heavy Equipment Area SWMU 055

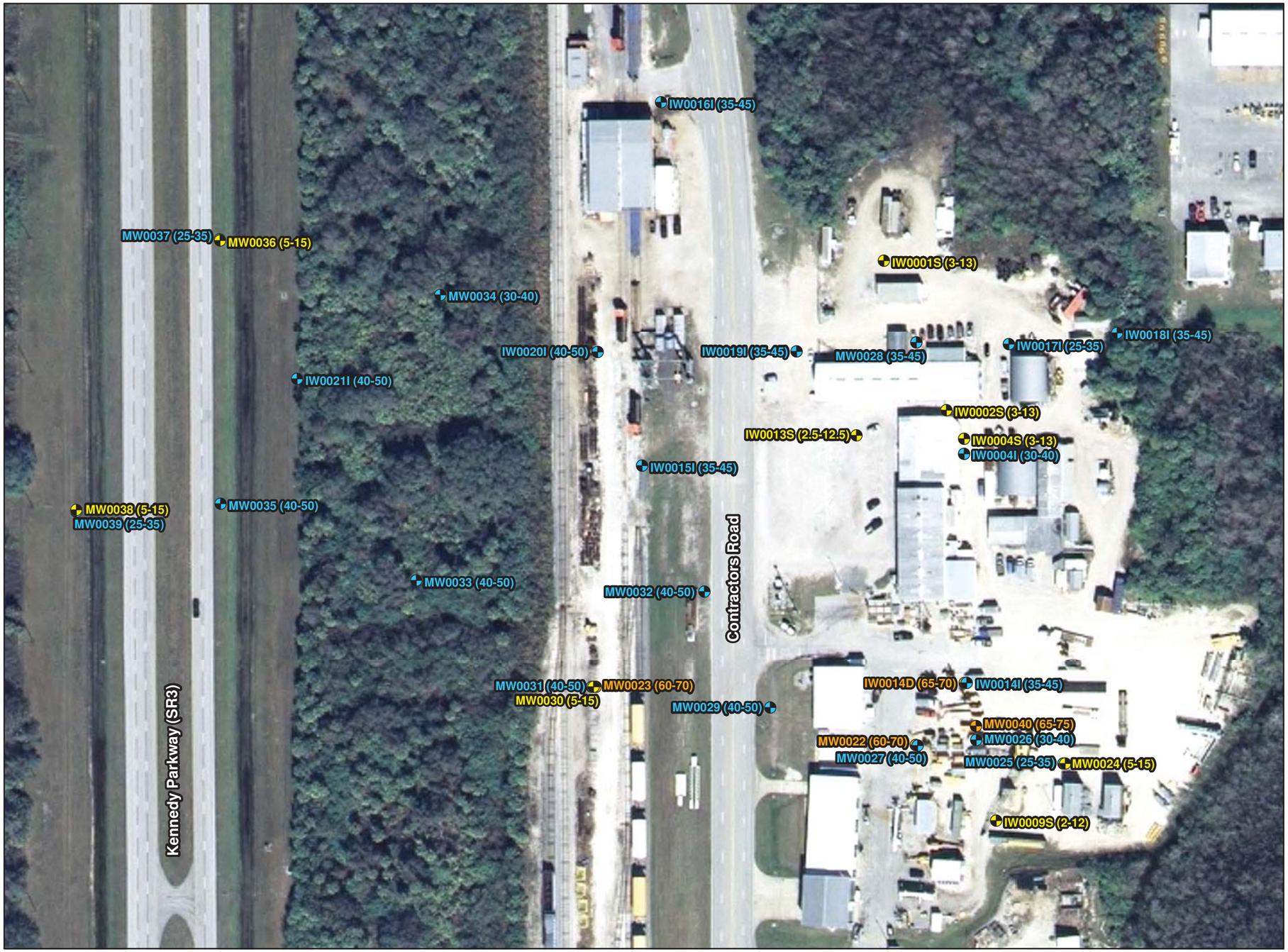
Well ID	TOC Elevation	20-Mar-12		11-Jul-13	
		Depth to Water (ft)	Groundwater Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
CRHE-IW0001S	5.74	3.67	2.07	NM	
CRHE-IW0002S	7.04	4.84	2.20	3.46	3.58
CRHE-IW0003S	5.83	NM		NM	
CRHE-IW0004I	6.87	4.71	2.16	3.38	3.49
CRHE-IW0004S	6.98	4.73	2.25	3.35	3.63
CRHE-IW0005S	6.85	NM		NM	
CRHE-IW0006S	5.64	NM		NM	
CRHE-IW0007S	6.04	NM		NM	
CRHE-IW0008S	5.52	NM		NM	
CRHE-IW0009S	5.51	3.35	2.16	2.11	3.40
CRHE-IW0010S	4.46	NM		NM	
CRHE-IW0011S	6.28	NM		NM	
CRHE-IW0012S	6.65	NM		NM	
CRHE-IW0013S	6.37	4.30	2.07	2.87	3.50
CRHE-IW0014D	5.23	4.35	0.88	3.05	2.18
CRHE-IW0014I	6.72	4.50	2.22	3.20	3.52
CRHE-IW0015I	6.41	4.45	1.96	NM	
CRHE-IW0016I	5.72	3.80	1.92	NM	
CRHE-IW0017I	5.37	4.43	0.94	NM	
CRHE-IW0018I	4.57	3.67	0.90	NM	
CRHE-IW0019I	5.32	4.52	0.80	NM	
CRHE-IW0020I	5.42	4.79	0.63	NM	
CRHE-IW0021I	2.54	2.15	0.39	NM	
CRHE-IW003M	7.04	NM		NM	
CRHE-MW0022	4.60	3.81	0.79	2.51	2.09
CRHE-MW0023	5.45	4.03	1.42	3.49	1.96
CRHE-MW0024	4.00	3.19	0.81	2.06	1.94
CRHE-MW0025	4.16	3.34	0.82	2.13	2.03
CRHE-MW0026	4.36	3.58	0.78	NM	
CRHE-MW0027	4.51	3.73	0.78	2.42	2.09
CRHE-MW0028	5.58	4.84	0.74	NM	
CRHE-MW0029	4.56	3.86	0.70	2.47	2.09
CRHE-MW0030	5.26	4.70	0.56	2.30	2.96
CRHE-MW0031	5.17	4.67	0.50	3.17	2.00
CRHE-MW0032	5.78	5.12	0.66	3.69	2.09
CRHE-MW0033	6.35	5.68	0.67	NM	
CRHE-MW0034	5.40	4.92	0.48	NM	
CRHE-MW0035	5.34	4.97	0.37	NM	
CRHE-MW0036	4.92	4.62	0.30	NM	
CRHE-MW0037	5.07	4.75	0.32	NM	
CRHE-MW0038	3.23	2.96	0.27	NM	
CRHE-MW0039	3.22	3.00	0.22	NM	
CRHE-MW0040	NS	not installed		2.32	NS

Notes:
1. ft indicates feet.
2. TOC indicates top of casing.
3. NM indicates not measured.
4. NS indicate not surveyed.
5. Elevations are reported in ft referenced to National American Vertical Datum (NAVD), 1988.

Table 3-3. Monitoring Well Geochemical Parameters
Contractors Road Heavy Equipment Area SWMU 055

Well ID	Date	Temperature (°C)	pH (Standard Units)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Color
CRHE-IW0014I	3/21/2012	25.13	7.15	0.631	11.5	-70.5	0.19	clear
CRHE-IW0015I	3/19/2012	23.92	6.9	0.715	4.9	87.2	0.54	clear
CRHE-IW0017I	3/20/2012	24.62	7.72	1.443	1.2	-112.0	1.15	clear
CRHE-IW0019I	3/20/2012	23.97	7.35	1.275	13.2	-91.5	2.50	clear
CRHE-IW0020I	3/19/2012	24.17	7.14	2.330	7.1	-86.4	0.42	clear
CRHE-IW0021I	3/20/2012	25.05	7.59	1.649	26.1	-126.1	0.71	clear
CRHE-MW0022	3/21/2012	25.70	7.12	2.036	9.4	-100.2	0.73	clear
CRHE-MW0023	3/19/2012	25.55	7.63	1.536	3.4	-42.1	0.58	clear
CRHE-MW0024	3/21/2012	24.48	7.98	3.336	1.7	-180.6	0.46	clear
CRHE-MW0025	3/21/2012	22.54	7.18	0.336	15.0	6.3	0.66	clear
CRHE-MW0026	3/21/2012	23.42	7.23	0.509	12.2	-39.6	0.25	clear
CRHE-MW0027	3/21/2012	24.11	7.22	0.602	14.2	-69.5	0.20	clear
CRHE-MW0028	3/20/2012	25.59	7.31	0.902	35.1	-30.2	0.40	clear
CRHE-MW0029	3/21/2012	24.47	7.58	1.369	18.4	-165.2	0.30	clear
CRHE-MW0030	3/19/2012	24.48	7.22	1.092	5.0	1.1	0.30	clear
CRHE-MW0031	3/19/2012	23.65	7.24	1.295	24.5	-122.8	0.37	clear
CRHE-MW0032	3/19/2012	24.71	7.53	3.108	8.7	-121.3	0.54	clear
CRHE-MW0033	3/20/2012	26.21	7.39	2.357	12.2	-172.9	0.75	clear
CRHE-MW0034	3/20/2012	25.05	7.37	1.955	13.9	-206.1	0.15	clear
CRHE-MW0035	3/20/2012	23.8	7.55	1.595	16.8	-210.1	0.62	clear
CRHE-MW0036	3/20/2012	25.10	7.26	2.010	12.5	-111.9	0.25	clear
CRHE-MW0037	3/20/2012	25.10	7.75	0.361	12.1	-143.5	0.73	clear
CRHE-MW0038	3/19/2012	24.05	7.51	0.860	60.0	-240.3	1.00	clear
CRHE-MW0039	3/19/2012	25.23	7.25	1.604	12.5	-175.6	0.19	clear

Notes:
1. °C indicates degrees Celsius.
2. µS/cm indicates microsiemens per centimeter.
3. NTU indicates Nephelometric Turbidity Units.
4. ORP indicates oxidation reduction potential.
5. mV indicates millivolts.
6. mg/L indicates milligrams per liter.



N

120 60 0 120

Feet

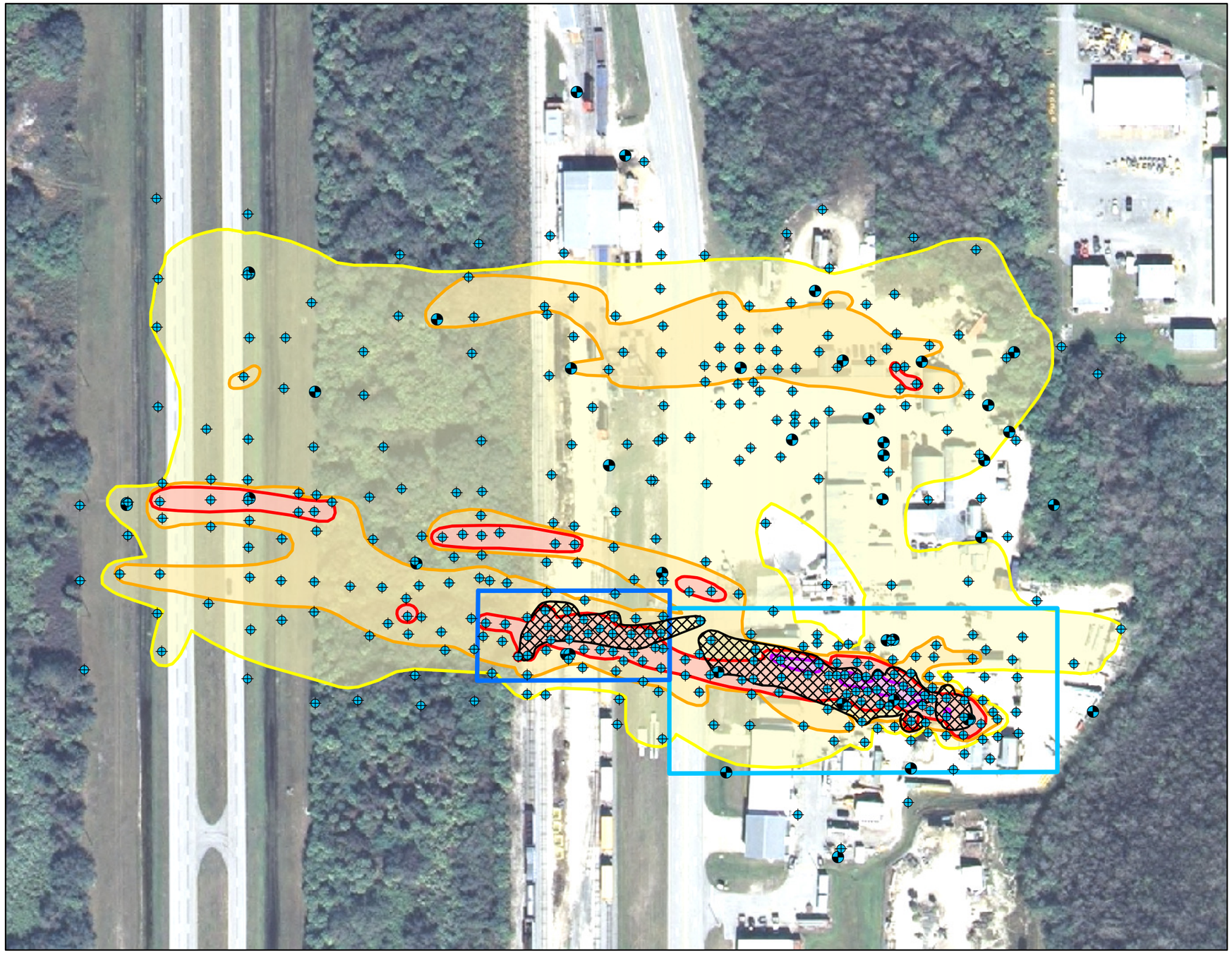
Legend

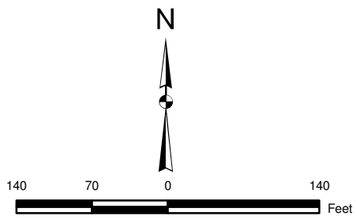
- Shallow Monitoring Well Location showing (Screen Interval)
- Intermediate Monitoring Well Location showing (Screen Interval)
- Deep Monitoring Well Location showing (Screen Interval)

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).

Path: (Titusville-01\Data\)T:\0GIS\FR1681_CRHE\MXDs\AUG2013\GW_network_AUG2013.mxd 21 August 2013 JRB

Figure 3-1
Monitoring Well Network





Legend

- DPT Location
- Monitoring Well Location
- Hot Spot 2
- Hot Spot 1
- Low Concentration Plume (Concentrations Greater than GCTL)
- High Concentration Plume (Concentrations Greater than NADC)
- TCE High Concentration Plume
- Hot Spot (Concentrations Greater than 10X NADC)
- Approximate 1% TCE Solubility

Site Plumes	Site Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	14.90
High Concentration Plume (Concentrations Greater than NADC)	4.37
TCE High Concentration Plume	0.63
Hot Spot (Concentrations Greater than 10X NADC)	1.01
Approximate 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.06

Notes:
1. GCTL indicates Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level.
2. NADC indicates FDEP Natural Attenuation Default Concentration.

Path: (Titusville-01\Data\)P:\0GIS\FR1681_CRHE\MXDs\JAN2015\Greater_GCTL_NADC_10XNADC_JAN2015.mxd 23 Mar 2015 MAH

Figure 3-2
Overall Extent of Groundwater Isopleths at CRHE
3-11/3-12

SECTION IV

OVERVIEW OF ENGINEERING EVALUATIONS

4.1 SUPPLEMENTAL SITE CHARACTERIZATION

Supplemental site assessment activities conducted across the Site were presented during the June 2012 KSCRT Meeting (Appendix B). Groundwater impacts were identified between 8 and 50 ft BLS with the maximum concentrations at 36 to 40 ft BLS. Separate HCPs were identified in the northern and southern portions of the Site. A TCE SZ was identified in the southern HCP. Additional DPT sampling was recommended to address sample location spacing and data gaps Site-wide and in the SZ. Team consensus was reached during the June 2012 Team Meeting to proceed with DPT groundwater sampling to fill data gaps.

4.2 SITE CHARACTERIZATION OF HOT SPOT 1

Site characterization of HS1 was presented during the December 2013 KSCRT Meeting (Appendix C). Team consensus was reached that delineation was complete within HS1 for the following areas: (i) source zone (TCE greater than 11,000 µg/L); (ii) TCE and cDCE greater than 10xNADC; (iii) TCE greater than NADC; and (iv) TCE greater than GCTL. Team consensus was also reached that: (i) cDCE HCP and LCP plumes are co-mingled with adjacent HS areas and that delineation within HS1 is complete; and (ii) VC HCP and LCP plumes are co-mingled with adjacent HS areas and that delineation within HS1 is complete. Additional delineation was specified as ongoing for the LCP, HCP and HS2.

A summary of site conditions that will potentially affect the remedial technology selection and design was also presented and included the presence of buildings and site structures, the high level of activity at the Site, the downgradient edge of the 10xNADC plume extending under a building, and the presence of thick road base in some areas. A remedial technology screening summary was presented for the SZ and HS1. Engineering data gap sampling was proposed for four wells down the plume centerline and across the Site with analysis of dissolved gases, sulfate, sulfide, *Dehalococcoides*, *VC Reductase*, VOCs, and 1,4-dioxane. Team consensus was also reached to proceed with the Remedial Alternatives Evaluation for HS1.

4.3 REMEDIAL ALTERNATIVES EVALUATION FOR HOT SPOT 1

A remedial alternatives evaluation (Step 2 EE) for HS1 was presented during the February 2014 KSCRT Meeting (Appendix D). During this presentation, preliminary designs for remedial technologies used to treat either the source zone or the 10xNADC plume were presented. The technologies evaluated for source zone (TCE concentrations > 1% solubility) remediation included: (i) air sparge and soil vapor extraction (SVE); (ii) bioremediation using emulsified oil;

and (iii) injection of emulsified zero-valent iron (EZVI). The technologies evaluated for 10xNADC plume remediation included: (i) air sparge and soil vapor extraction; (ii) bioremediation using emulsified oil with groundwater recirculation and passive venting beneath the building present above the 10xNADC plume; and (iii) injection of EZVI within the source zone and bioremediation using emulsified oil within the 10xNADC plume with groundwater recirculation and passive venting beneath the building present above the 10xNADC plume. Team consensus was reached to proceed with a bioremediation design within the source zone area.

4.4 INTERIM MEASURES WORK PLAN FOR HOT SPOT 1

An interim measures work plan for HS1 was presented during the May 2014 KSCRT Meeting (Appendix E). During this presentation, a design for the bioremediation of the source zone area was presented. The design called for the injection of approximately 71 drums of emulsified vegetable oil (SRS®-SD was used for the design), diluted to a 1:80 ratio with anaerobic water, at 29 locations of varying depth intervals (14 to 50 ft BLS), as well as the installation of eight monitoring wells. Team consensus was reached on the initial design with minor revisions to the following: (i) modifying language regarding vendors so that any vendor can be used; (ii) clarifying that injection locations will be grouted; (iii) increasing monitoring well pad size and reinforcement; (iv) including specific monitoring wells for mounding monitoring during injection activities; (v) removing the Step 4B EE from cost estimates; and (vi) providing coordinates for DPT injection locations.

4.5 SITE CHARACTERIZATION OF HOT SPOT 2, HIGH CONCENTRATION PLUME, & LOW CONCENTRATION PLUME

Site-wide characterization (including HS2, HCP and LCP) was presented during the April 2015 KSCRT Meeting (Appendix F). Team consensus was reached that delineation was complete for the following areas: (i) TCE, cDCE, and VC within HS2; (ii) TCE, cDCE, and VC greater than NADC; and (iii) TCE, cDCE, and VC greater than GCTL.

A summary of site conditions that may affect remedial technology selection and design was also presented and included the presence of wetlands, railroads, a drainage ditch, roadways, buildings and site structures, the high level of activity at the Site, the downgradient edge of the 10xNADC plume extending under a building, and the presence of thick road base in some areas. A remedial technology screening summary was presented for HS2 and HCP. Team consensus was reached to proceed with a Step 2 EE of the retained remedial technologies.

The interim groundwater monitoring plan was also presented during the April 2015 KSCRT Meeting. Team consensus was reached to install two supplemental monitoring wells and sample select existing monitoring wells on an annual basis (Appendix O).

SECTION V

RECOMMENDATIONS

Remedial technologies to be evaluated during the Step 2 for HS2, HCP, and LCP include: (i) bioremediation (with the option for recirculation) and air sparging in HS2 and HCP; and (ii) monitored natural attenuation for LCP.

The interim groundwater monitoring plan, presented during the April 2015 KSCRT meeting, includes annual sampling of select Site monitoring wells.

APPENDIX A

APPLICABLE REMEDIATION TEAM MEETING MINUTES

1206-M14	Jill Johnson/ Geosyntec	Contractor's Road Heavy Equipment Area (SWMU 55) **Goal**: Present Step 1A and proposed additional assessment **Discussion**: Groundwater impacts were observed between 8 and 50 ft BLS with the maximum concentrations at 36 to 40 ft BLS. There are separate high concentration plumes identified on the northern and southern portions of the site. A TCE source zone was identified in the southern portion of the site. Additional DPT sampling is proposed to address sample location spacing concerns as well as data gaps. Path forward following additional sampling efforts will be to supplemental sampling results and Step 1B. Team consensus reached on proposed DPT locations as presented at the June 2012 team meeting. **Results**: Decision item 1206-D31

1312-M02	Jill Johnson/ Geosyntec	Contractor's Road Heavy Equipment Area (SWMU 055) **Goal:** Present Step 1 Engineering Evaluation **Discussion:** Focus of presentation is Hot Spot 1 (HS1), which is approximately 3 acres in size. In June 2012, Step 1 EE for the entire site was presented to the Team. Additional sampling was recommended. Additional delineation is ongoing for the LCP, HCP and Hot Spot 2. HS1 supplemental assessment activities included one MIP profile, 745 DPT groundwater samples from 94 locations, water level measurements, lithology borings, and monitoring well installation and sampling (deep well for vertical delineation). The lithology at the site is generally sand with shell hash from approximately 15 to 45 or 50 ft BLS and a silty sand with clay at approximately 50 ft BLS. The groundwater flow maps were revised and provided to the Team. Groundwater flow in the shallow zone (less than 15 ft BLS) is variable and influenced by the wetlands that surround the site to the north, west, and east. The groundwater flow in the intermediate zone (25 to 50 ft BLS) is generally to the west and southwest. The deep groundwater flow is towards the southwest, but only based on three monitoring wells. Groundwater flow velocity in the intermediate zone is approximately 69 ft/yr. MIP results show that the main interval of groundwater impacts are from 35 to 45 ft BLS, which correlate with the DPT groundwater data. In HS1 the source zone is defined as 11,000 ppb because this represents the area where DNAPL could be present. Impacts are generally from 8 to 50 ft BLS. The source zone contaminant mass is mainly 30 to 46 ft BLS. Monitoring well MW40 provides delineation vertically. Mass estimates revised for the presentation to include hand calculations and EVS calculations showed that a large range of mass could be present at the site (total CVOC mass range of 27 to 223 lbs). Within HS1, the source zone is 0.4 acres and represents 4 to 12% of mass.

Team consensus reached that delineation is complete within HS1 for the following: (i) the source zone (TCE greater than 11,000 ppb), (ii) TCE and cDCE greater than 10x NADC, (iii) TCE greater than NADC; and (iv) TCE greater than GCTL. Mike is uncomfortable with the delineation around the building, the utility corridor and area where the thicker road base is and sees this as a data gap.

Team consensus reached that the 1% solubility of TCE is the source zone (SZ).

Team consensus reached that in the SZ technologies to be evaluated include EZVI, bioremediation and air sparging/SVE and that in the CVOC 10X NADC area technologies to be evaluated include EZVI (1% solubility) with bioremediation in the remaining area within 10X NADC, bioremediation, and air sparge/SVE.

Results: Decision items 1312-D04 through D06

1402-M06	Rebecca Daprato/ Geosyntec	Contractor's Road Heavy Equipment Area (SWMU 55) **Goal**: Present EE Step 2 and obtain team consensus on treatment area (Overall 10X NADC or Source Zone) and technology for Interim Measures. **Discussion**: Impacts in Hot Spot 1 are generally from 8 to 50 ft BLS, with maximum concentrations of TCE of 160,000 µg/L (DPT0072 36 to 40 ft BLS), cDCE of 110,000 µg/L (DPT0200 26 to 30 ft BLS), and VC of 19,000 µg/L (DPT0200 31 to 35 ft BLS). The Step 1 EE defined the source zone as the area with TCE greater than 1% solubility (11,000 µg/L). Source zone contaminant mass is mainly 30 to 46 ft BLS, with 60% of the mass in this zone. The inferred source zone contour, as presented in this ADP creates a single, more conservative source zone which was used for evaluation of treatment alternatives in consideration of likely subsurface distribution outside of the identified locations. The 10xNADC plume encompasses the area with TCE, cDCE, and VC greater than 10xNADC. Based on the geochemical parameters, there is strong evidence that biologically mediated reductive dechlorination is occurring at the site. The results of the sampling for 1,4-dioxane indicate that 1,4-dioxane is not an issue for remedial decision making. However, this parameter will be included in the future monitoring program. Supplemental DPT groundwater sampling will be performed in 2014 as part of HCP and LCP delineation. Samples will be collected from under the Heavy Equipment Office Building and from within the roadway (Contractor's Road). This data will be incorporated into design (IM design report or the implementation work plan). The Hot Spot 1 corrective action objective is to reduce CVOC concentrations within the treatment area to less than NADCs. NASA may elect to continue IM to GCTLs and/or some alternative asymptotic level based upon performance. The CAO for the site was discussed and reducing concentrations to NADC may not be the goal for the treatment area (1% TCE solubility or 10XNADC), since there are concentrations outside the treatment area above NADC. The CAO will be revised in the Step 3.

Alternative 1A Air Sparge and SVE source zone: Installation of 13 air sparge (AS) wells via hollow stem auger. AS wells screened from approximately 48 to 50 ft BLS with spacing between wells of approximately 20 feet, with an approximate 20 ft ROI. 25-hp AS system operating one of two zones at a time. The alternative assumed use of mobile air sparge trailer #3 (conservative 25 hp compressor), capable of 190 scfm and 31.0 psi. Electric is available onsite from transformer located north of Heavy Equipment Office Building. Installation 11 SVE chambers to capture vapors in treatment area. Purchase of an SVE system (10-hp) with GAC treatment of recovered vapors. This alternative includes 3 days of DPT groundwater sampling to evaluate system optimization or shut down. O&M will be conducted daily for first three days, weekly first month, monthly thereafter. Performance monitoring would consist of installation of 10 monitoring wells sampled quarterly for VOC analysis. Ambient air sampling program will be implemented, if AS/SVE is selected and implemented. A detailed description of the air sampling plan will be provided in the Step 3. Associated costs are minimal and are considered to be included in the O&M cost provided. The estimated time to achieve CAO is 2 to 3 years, with a total cost estimated at $465,000 to $561,000. Cost assumes the use of an existing mobile air sparge trailer.

Alternative 1B Air Sparge and SVE 10xNADC plume: Installation of 34 AS wells via hollow stem auger. AS wells screened from approximately 48 to 50 ft BLS. Five angle-drilled AS wells to be installed beneath Heavy Equipment Office Building. AS wells in the source zone and under the building were spaced at approximately 20 ft. In the 10XNADC ring, AS well spacing was approximately 30 feet. A 20 ft ROI is assumed. Use of mobile air sparge trailer #3 is assumed (conservative 25 hp compressor), capable of 190 scfm and 31.0 psi. Electric is available onsite from transformer located north of Heavy Equipment Office Building. Installation of 16 SVE chambers to capture vapors in treatment area. Purchase of an SVE system (10-hp) with GAC treatment of recovered vapors. Due to the utility corridor, hand augering to the water table will be required for well installation and hand digging for trenching. Included 5 days of DPT groundwater sampling to evaluate system optimization or shut down. O&M will be conducted

daily for first three days, weekly first month, monthly thereafter. Performance monitoring would consist of installation of 15 monitoring wells sampled quarterly for VOC analysis. The estimated time to achieve CAO is 2 to 3 years, with a total cost estimated at $699,000 to $821,000. Cost assumes the use of an existing mobile air sparge trailer and purchase of trailer-mounted SVE system.

Alternative 2A Bioremediation Source Zone: 29 DPT Injection points with electron donor injected from 20 to 50 ft BLS, with injection point spacing based on an 8 ft ROI. Injection of 33 drums of emulsified oil assumed, based on filling 0.5% pore volume with emulsified oil (conservative estimate based on possibility of DNAPL). Second injection (17 drums) of emulsified oil 24 months after initial event, based on filling 0.25% of pore volume with emulsified oil. Plan includes 3 days of DPT sampling to aid in design for second injection event. Performance monitoring consists of installing 10 wells to be sampled for VOCs quarterly, analyzing a subset of 5 wells for *Dhc, vcrA*, sulfate, sulfide, and TOC. The estimated time to achieve CAO is 3 to 5 years, with a total cost estimated at $437,000 to $557,000. The time to achieve the CAO was estimated using dechlorination rates from MLP/VAB Area biostimulation.

Alternative 2B Bioremediation 10XNADC plume: 107 DPT injection points with electron donor injected from 20 to 50 ft BLS, with spacing based on 8 ft ROI. There will be six angle-drilled injection points beneath the building. Intend to use solar-powered groundwater recirculation system to distribute amendment beneath the building. Passive vents will be installed to avoid methane accumulation beneath the building. Injection of 102 drums of emulsified oil is assumed. Includes 5 days of DPT sampling to aid in design for second injection event. Second emulsified oil injection 24 months after initial event; assumed to be 35 drums. In the second event, the source zone dosage is assumed to be 50% of the original dose into all original locations. In the 10XNADC area, a 50% dosage into half of the original locations is assumed. Performance monitoring consists of installation of 15 wells VOC sampling quarterly, analyzing a subset of 8 wells for *Dhc*, *vcrA*, sulfate, sulfide, and TOC, and sampling the injection and extraction

wells to aid in evaluation of mass removal under building. The estimated time to achieve CAO is 3 to 5 years, with a total cost estimated at $930,000 to $1,129,000.

Alternative 3A EZVI Source Zone: Treatment interval is 20 to 50 ft BLS. Treatment consists of 126 DPT injection points, into which approximately 20,500 gallons EZVI (5% by weight) is assumed to be injected from 20 to 50 ft BLS. The injection point spacing is based on estimated 3 ft ROI. A second EZVI injection event is assumed to be conducted 24 months after initial event, consisting of 50% the initial injection volume - 10,250 gallons. Treatment plan includes 3 days of DPT sampling to aid in design of second injection event. Performance monitoring consists of installing 10 wells to be sampled quarterly for VOCs. The estimated time to achieve CAO is 3 to 5 years, with a total cost estimated at $1,240,000 to $1,340,000. The 3 ft ROI was discussed as being overly conservative. At other sites, a 6 ft ROI was assumed. The cost was revisited using a 6-ft ROI, and a total cost reduction of approximately $90,000 could be obtained by increasing ROI to 6 ft. Cost for EZVI is driven by the amount of EZVI needed and that does not change, when the ROI is increased. Drilling costs and associated field time are reduced.

Alternative 3B EZVI and Bioremediation with Recirculation 10xNADC plume: EZVI to be conducted in the Source Zone – same as Alternative 3A. Bioremediation in the 10xNADC will be conducted the same as described in the 10xNADC area in Alternative 2B. Plan includes 5 days of DPT sampling to aid in the design of the second injection event. Second injection expected to be 24 months after initial event, in which the SZ receives 50% of the initial injection volume, and the 10xNADC area receives 50% of the volume into half of the original locations. Performance monitoring consists of installing 15 wells that will be sampled quarterly for VOC analysis, analyzing a subset of 3 wells for *Dhc, vcrA*, sulfate, sulfide, and TOC, and sampling of injection and extraction wells to evaluate mass removal under building. The estimated time to achieve CAO is 3 to 5 years, with a total cost estimated at $1,718,000 to $1,883,000.

All three technologies are capable of treating COCs. Why not air sparging?

- Trenching at an active facility with large pieces of equipment and personnel that work in the area.
- Heavy equipment will likely require specialty vault boxes and geotech evaluation for trenching.
- Likely mounding from AS and possible entrainment issue with SVE.
- Scale up/expansion issues when looking at plume as a whole – due to presence of road/railroad yard and woods/wetland.
- Engineering solutions can be developed, but there are risks.

Why Bioremediation?

- Passive implementation
- Ideal geochemistry
- Reduced OM&M (monitoring only)
- Amenable to scaling
- Thought to be more cost-effective than EZVI, based on assumptions about dechlorination rates

AS/SVE is less expensive per pound and total "Pay as You Go", but bioremediation offers:

- A more passive technology at a busy site
- Reduced impact to operations
- Reduced risk of damage to utilities or to the treatment system during operation
- Reduced risk of failure – AS/SVE mounding likely to cause entrainment issues for SVE with potential exposure to personnel

There was a discussion about the treatment interval of 20 to 50 ft for bioremediation and EZVI. The treatment interval was set at 20 to 50 ft to be able to directly compare to air sparging, which will treat the entire interval. The treatment interval would be approximately 15 ft to treat the 10XNADC impacts, so the cost for bioremediation and EZVI would be reduced, if the treatment interval was reduced. The reduction in cost would be most significant for EZVI because would reduce the purchase of EZVI by half (cost reduction of approximately $350,000). It was noted that bioremediation, EZVI and

EZVI/bioremediation have beneficial indirect effects beyond the zone of treatment.

Team consensus reached on alternative 2A bioremediation of the Source Zone (TCE 1% solubility).

Step 3 EE will look into the treatment interval for alternative 2A.

Results: Decision item 1402-D20

1405-M10 Rebecca Daprato/ Geosyntec

Contractors Road Heavy Equipment Area (SWMU 055)
Goal: Present Step 3 EE and obtain team consensus on the bioremediation IM work plan.
Discussion: The objectives of the IM are: (i) to evaluate if bioremediation is effective in treating TCE concentrations that are greater than 1% solubility (probable dense non-aqueous phase liquid); and (ii) obtain data to evaluate the implementation of bioremediation in a larger treatment area.

The treatment area is the source zone where TCE concentrations are greater than 11,000 µg/Land the vertical treatment interval includes the interval with CVOCs greater than 10X NADC (approximately 15 to 50 ft BLS).

The bioremediation IM includes the DPT injection of 71 drums of SRS®-SD diluted 1:80 with potable water (injection intervals vary by location; interval injection rationale and dosing provided in ADP and IMWP). Semi-annual performance and UIC monitoring will be conducted using eight monitoring wells and a robust DPT groundwater sampling event will be conducted one to two years post-injection.

The implementation work plan should include a site layout/staging plan to provide locations where substrate, equipment, and tank staging are planned to be placed.

Based upon current site sampling results (presence of ethene and ethane and presence of *Dhc* and *vcrA*), microcosm testing is not necessary, since the sampling results indicate that complete reductive dechlorination is occurring. Agree that bioaugmentation would be beneficial, but is not necessary. Propose that the decision to bioaugment be made based on the

baseline sampling results. Groundwater samples will be analyzed for *Dhc* and *vcrA* from two proposed monitoring wells and if the *Dhc* and *vcrA* concentration is less than 10^6 gene copies per liter, bioaugmentation will be performed.

SRS®-SD does not normally contain sodium bicarbonate, but it will be added by the manufacturer during the manufacturing process. The sodium bicarbonate will provide additional buffering capacity to the aquifer. There was no additional cost for the addition of sodium bicarbonate to the SRS®-SD. Per the FDEP Acceptance Letter provided in Appendix D of the IMWP, UIC monitoring associated with the injection of SRS®-SD requires monitoring of sodium, total dissolved solids, and total recoverable petroleum hydrocarbons. Since the UIC monitoring includes sodium, there should be no secondary UIC issues. Also, by approximating the resulting concentration of sodium in the 305,000 gallons of pore volume, the concentration of sodium in the aquifer due to the addition to 8 g/L of sodium bicarbonate to the SRS®-SD is less than 0.03 g/L, and the KSC Upper Range of Background for sodium is 15 g/L (FDEP GCTL is 0.16 g/L).

The changes made between the Step 2 and the Step 3 EE included the following: (i) modification of the electron donor from EOS® to SRS®-SD; (ii) increasing the dosing of the electron donor from 0.5% to 0.7% of the pore volume;(iii) the method of calculating the pore volume of the treatment area (considering overlap and drift outside the treatment area); and (iv) an increase in number of DPT sampling days from three to five. The cost from the Step 2 EE and the Step 3 EE were compared on the cost per cubic yard treated. Based on this comparison it was determined that although the treatment volume increased from 3,390 yd^3 to 4,317 yd^3 the cost per cubic yard was similar.

If the injection technique proposed in the IMWP is utilized, do not anticipate daylighting issues in any existing monitoring wells (no daylighting issues occurred at LC34 Hot Spot 1 where monitoring wells [with secure caps] were within 2 feet of injection locations). If an alternative injection vendor/technique is ultimately utilized, the abandonment of the

existing monitoring wells within the treatment area should be considered in the IM Implementation Work Plan.

Team consensus reached on IMWP with the following revisions: (i) modify the language to clarify that any vendor can be utilized for the DPT injection work; (ii) clarify that injection boreholes will be abandoned by tremie grouting the boreholes after injection; (iii) increase monitoring well pad size to 2′x2′x6″ with reinforcement; (iv) add language to indicate that proposed monitoring wells MWA, MWC, MWF, MWH, and existing wells MW0024, MW0026, and IW0014I will be utilized for monitoring for mounding during injection activities; (v) remove the Step 4B EE and the costing; (vi) and provide coordinates for DPT injection locations.

Results: Decision item 1405-D24

1504-M05	Lane Dorman/ Geosyntec	Contractors Road Heavy Equipment Area (SWMU 055) **Goal**: Present Step 1 EE for Hot Spot 2, High Concentration Plume (HCP), and Low Concentration Plume (LCP). Obtain team consensus on horizontal and vertical delineation for Hot Spot 2, HCP and LCP. Obtain team consensus on technologies retained for Step 2 evaluation. Obtain team consensus on the interim groundwater monitoring plan. **Discussion**: A site-wide groundwater sampling event completed in March 2012. Twenty-four monitoring wells were sampled for VOCs. Detected concentrations for TCE ranged from 0.6 I to 1,000 µg/L in eight wells. Detected concentrations for cDCE ranged from 0.44 I to 9,700 µg/L in 19 wells. Detected concentrations for VC ranged from 13 to 7,600 µg/L in 17 wells. Activities completed since Step 1 Hot Spot 1 include: 781 DPT groundwater samples from 97 locations, data gap sampling, implementation of MOT plan for sample collection along Kennedy Parkway and Contractors Road, and land clearing east of Kennedy Parkway for delineation of Hot Spot 2. For figures greater than 56 ft BLS, the data presented is the result at the bottom of each location in order to show vertical delineation. Added a call-out box in final presentation loaded to RIS to explain what samples were used to contour intervals 16 to 30 and 31 to 46 ft BLS for VC when sample spacing did not meet the EE suggested spacing. There were areas where we were able to sample in the past, but were not allowed to go back to collect additional samples due to utility concerns, etc. There were submerged areas we used mats to sample, but due to differing site conditions we were not able to use mats in all submerged areas. In the future, presentations on any site, team needs to convey such information to eliminate further comments such as these. Team felt it would be helpful to provide lithology information for the mapped interval. Need to call them out better on the map or at least call out in presentation. Items get hidden in notes on the figures. Team consensus reached on delineation of TCE, cDCE, and VC delineation in Hot Spot 2.

Team consensus reached on delineation of TCE, cDCE, and VC in the HCP site wide.

Team consensus reached on delineation of TCE, cDCE, and VC in the LCP site wide.

Team consensus reached to retain bioremediation with recirculation, air sparging, and MNA for evaluation in Step 2 with possibility of scaling bioremediation, MNA, and air sparging to larger treatment area.

Step 2 would not be conducted until there is some performance data from the Hot Spot 1 treatment which has been funded this year.

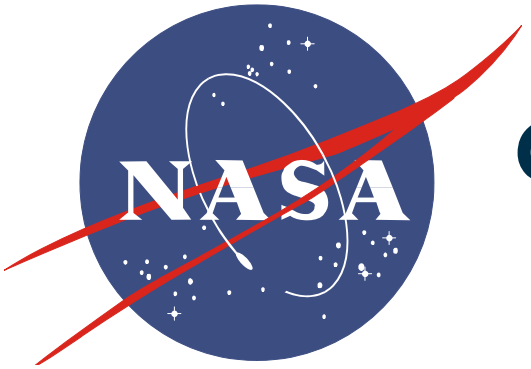
Team consensus reached on Interim groundwater monitoring plan as presented in the April 2015 ADP.

Results: Decision item 1502-D25 to D29

APPENDIX B

STEP 1 ENGINEERING EVALUATION ADP (electronic copy only)

Geosyntec consultants



Contractor's Road Heavy Equipment (CRHE) Area SWMU 55

Step 1A Engineering Evaluation

June 2012

Presentation Outline

- Site overview and history/background
- Site conditions
- Summary of site assessment activities
- Path forward
- Test consensus on proposed sampling

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

engineers | scientists | innovators

Geosyntec consultants

Site Overview

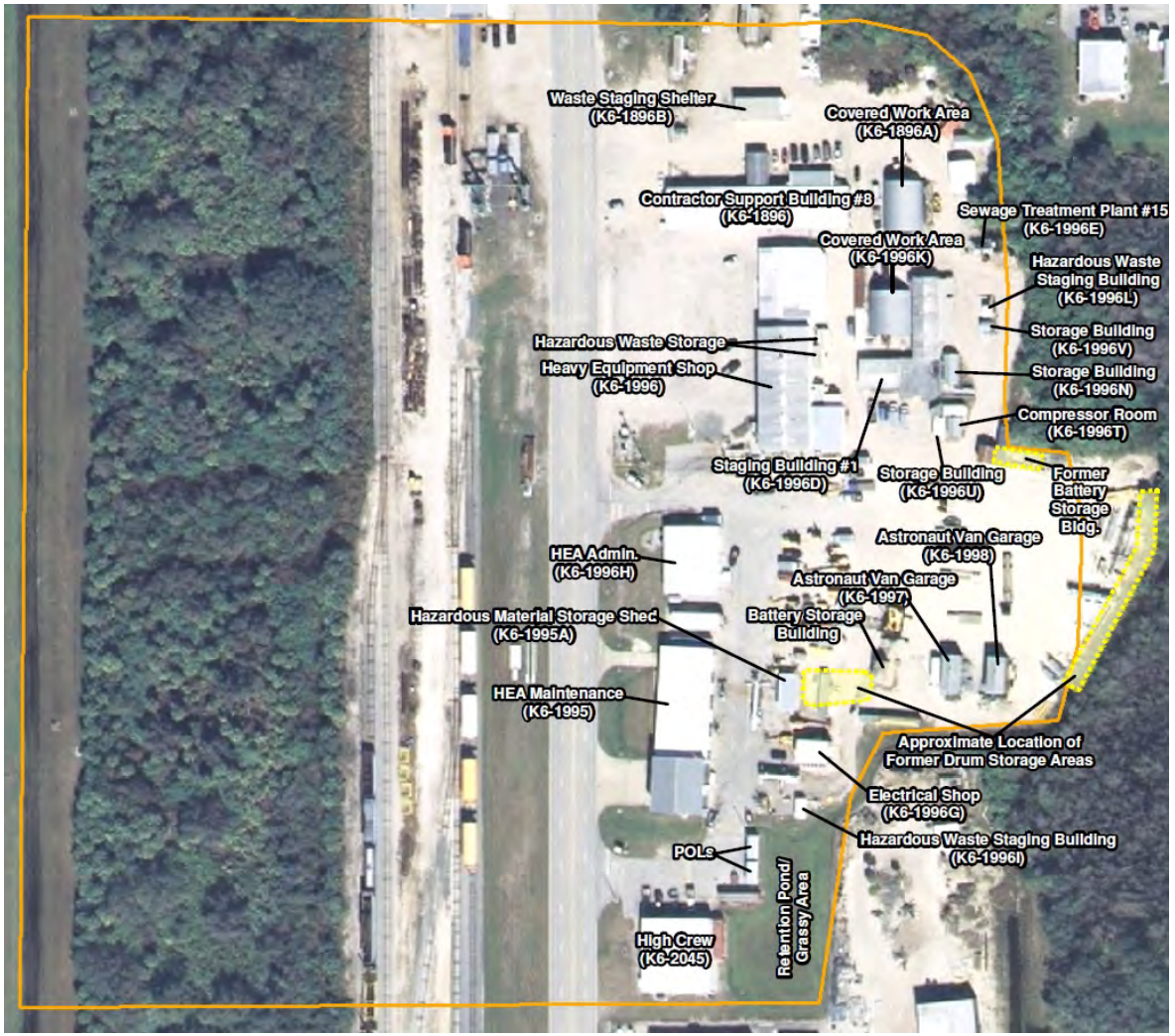
- Approximately 23 acres
- Six numbered buildings/support structures
- Site features:
  - *paved portions*
  - *majority of the site is gravel and dense woods*
  - *RR track parallel to Contractor's Road*
- Historical site use
  - *Hazardous Waste Storage/Staging*
  - *Printed Circuit Board Manufacturing*
  - *Domestic Wastewater Treatment*
  - *Heavy Equipment Maintenance/Storage (current use)*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Geosyntec consultants

Site Background (cont.)

- Objectives
- Site Overview/ Background
- Site Conditions
- Plume Delineation
- Test Consensus



Geosyntec consultants

Site Background (cont.)

- 1994: Preliminary assessment (EG&G, Inc.)
  - *Identified CVOCs and metals in GW*
  - *Recommended additional assessment*
- 1997-1999: RFI (HSW, Inc.)
  - *Identified CVOCs and metals in GW*
  - *VC up to 370 µg/L in northern area (waterloo profiler)*
  - *TCE up to 41 µg/L (in IW-4I), down to 0.4 µg/L by end of RFI activities*
  - *Highest concentrations between about 15 and 45 ft BLS*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Site Background (cont.)

- 2000: Corrective Measures Study (CMS) (HSW, Inc.)
  - *Site clean up goals established for industrial setting*
  - *LUCIP for groundwater*
  - *No active corrective measures recommended*
  - *LTM program to monitor natural attenuation of CVOCs in groundwater*
  - *10 year estimated timeframe to reach cleanup goals*
- 2000 – 2005: Semi-annual GW sampling in 7 wells
- 2005 – 2009: Site incorporated into VAB LTM program

Geosyntec consultants

Site Background (cont.)

- Feb 2009: Geosyntec recommended additional gw assessment due to elevated cDCE and VC in IW18I and IW19I (2008 LTM Report)
- June to August 2009: Supplemental DPT investigation conducted to assess potential residual source area
  - *Focused on northern area*
  - *No TCE identified (cDCE up to 2,100 µg/L, VC up to 1,200 µg/L)*
- 2010: Removed from LTM program
- 2010-2012: Implementation of supplemental assessment activities
  - *Expanded activities toward south*
  - *Identified TCE source area with max concentration of 160,000 µg/L*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Supplemental Site Assessment

- 2 MIP profiles
- DPT groundwater samples
  - *1,132 from 173 locations*
  - *Generally sampled from 16 to 50 ft BLS at 4 ft intervals*
  - *Some sampling to 65 ft BLS for vertical delineation*
- Water level measurements (Nov-09 and Mar-12)
- Lithology borings (7 borings to 80 ft BLS)
- Monitoring well installation (supplemented 25 existing wells)
  - *4 shallow (<15 ft BLS)*
  - *11 intermediate (35 to 50 ft BLS)*
  - *2 deep wells (60 to 70 ft BLS)*
- Monitoring well sampling

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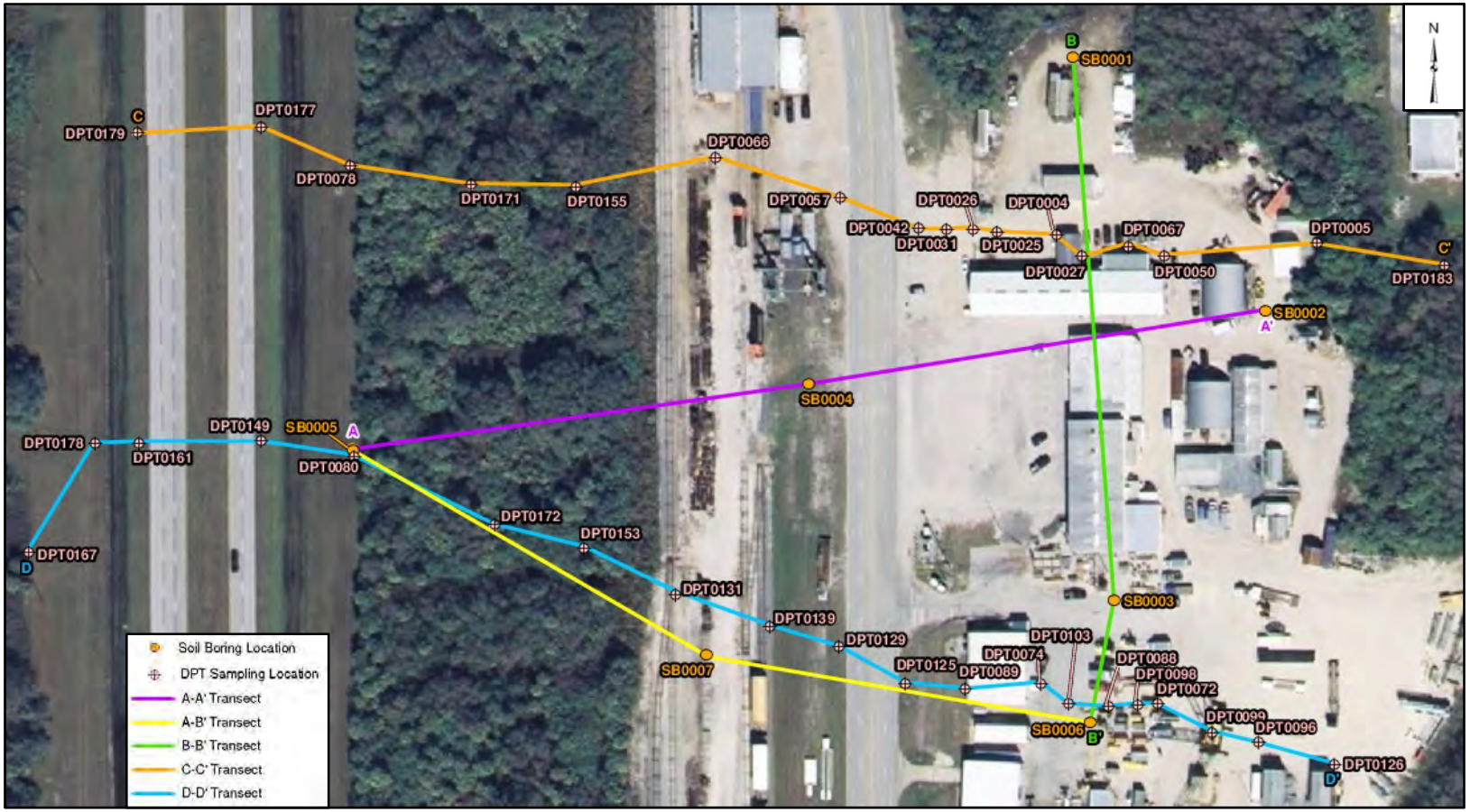
Site Conditions

- Lithology
- Hydrogeologic site characteristics
- Groundwater flow

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Cross Section Plan View

- Objectives
- Site Overview/ Background
- Site Conditions
- Plume Delineation
- Test Consensus



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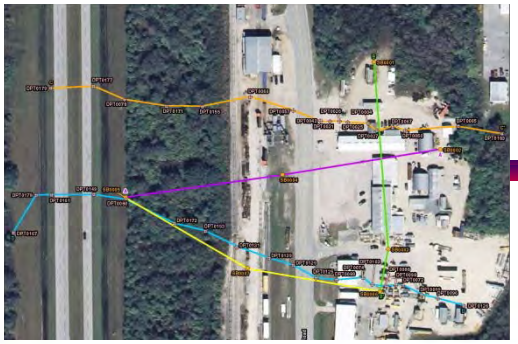
Lithology A to A´



W to E in middle of site

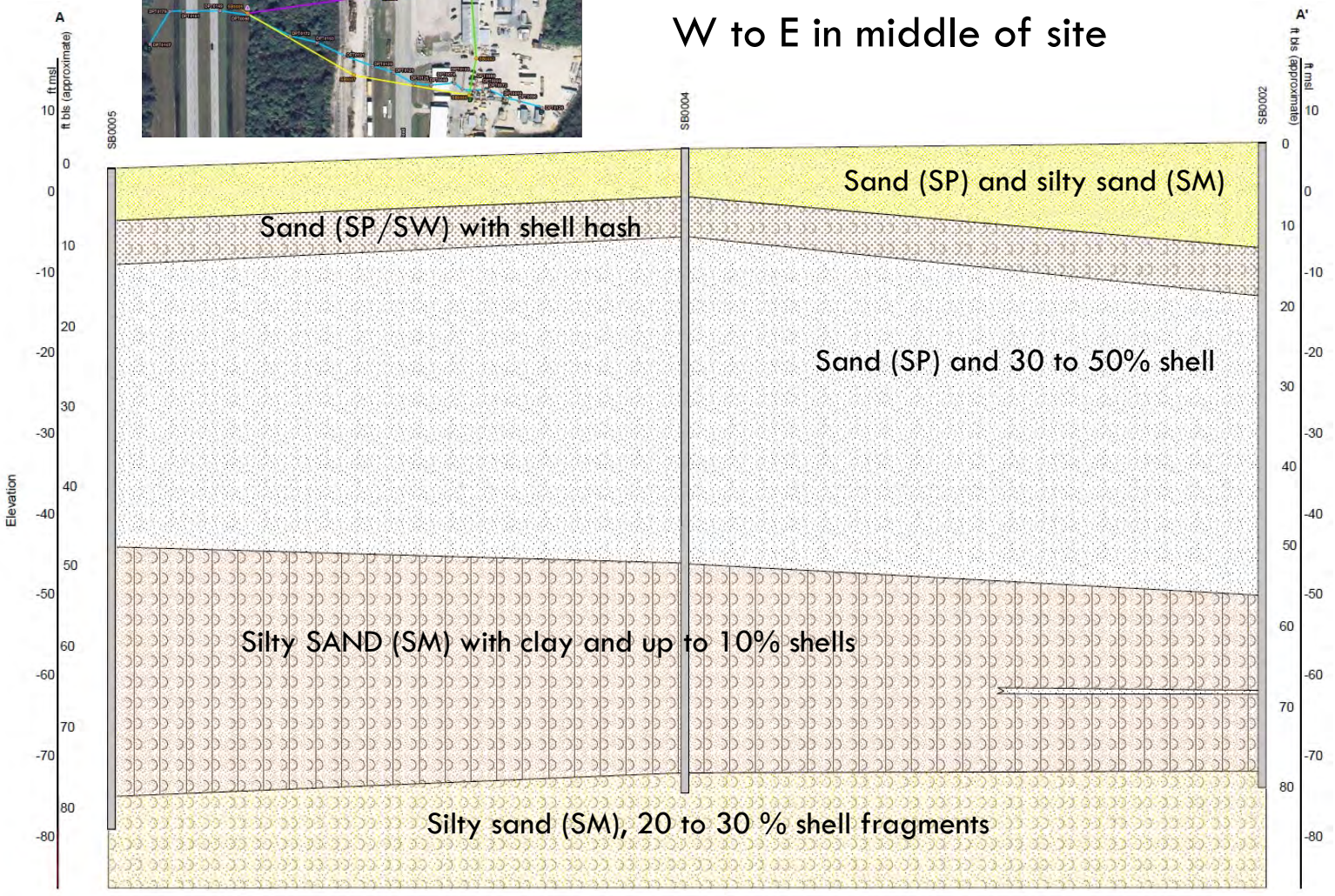


Figure 1

- Objectives
- Site Overview/ Background
- Site Conditions
- Plume Delineation
- Test Consensus

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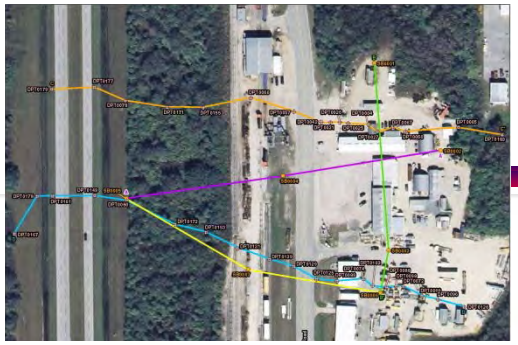
Lithology A to B´



W to E to S, along plume centerline

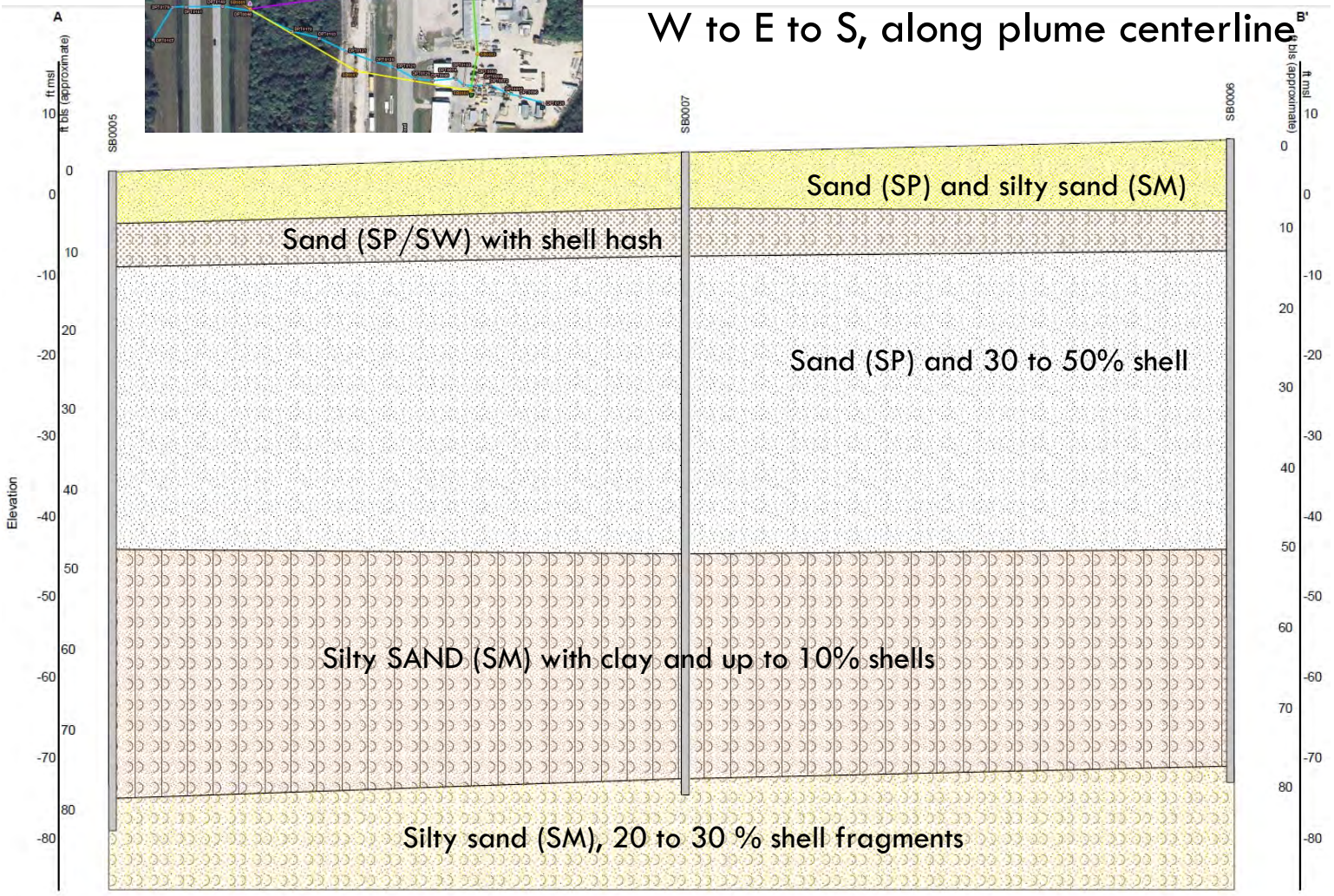


Figure 2

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

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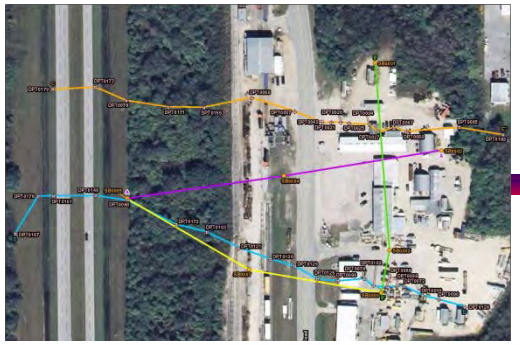
Lithology B to B´



N to S

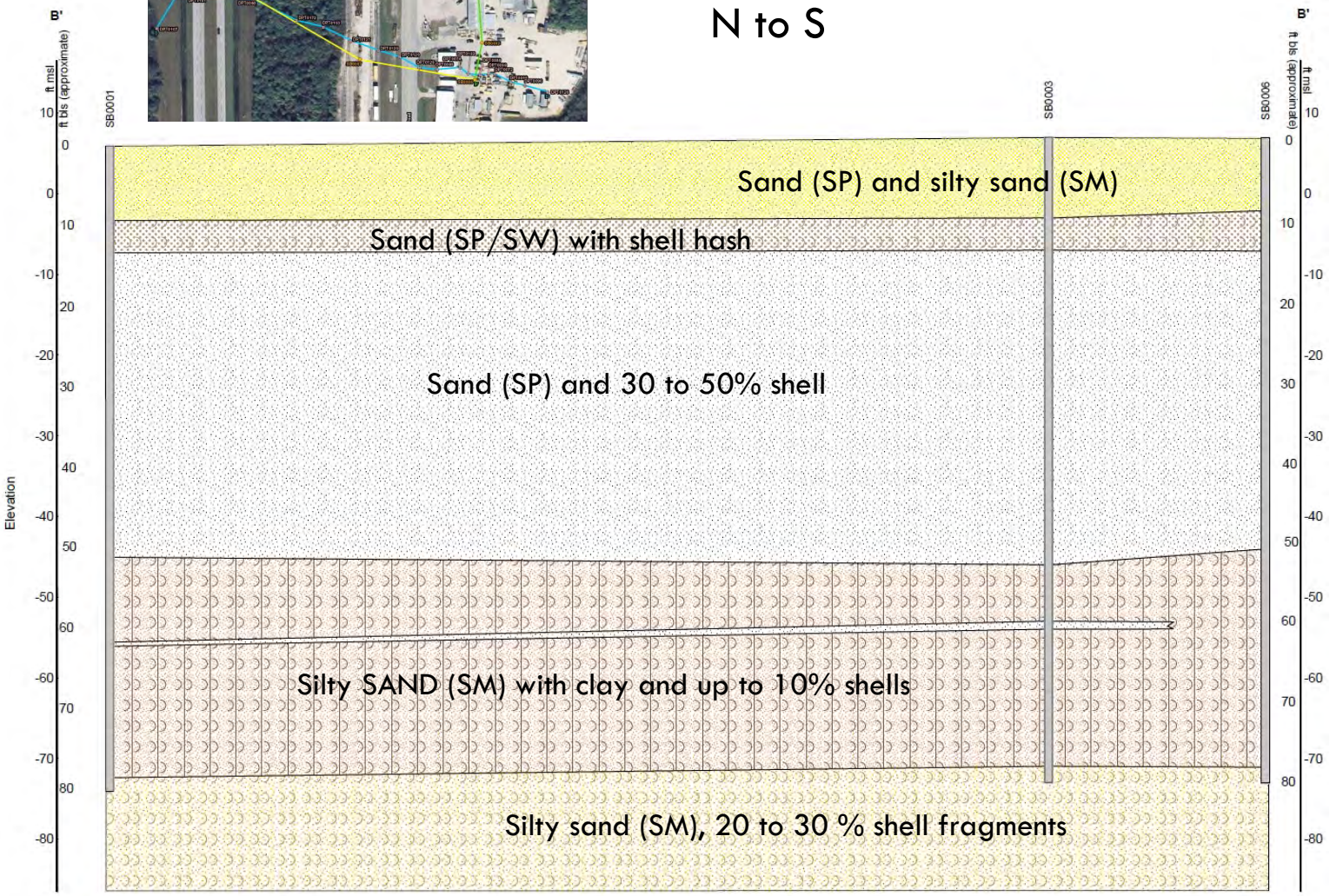


Figure 3

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

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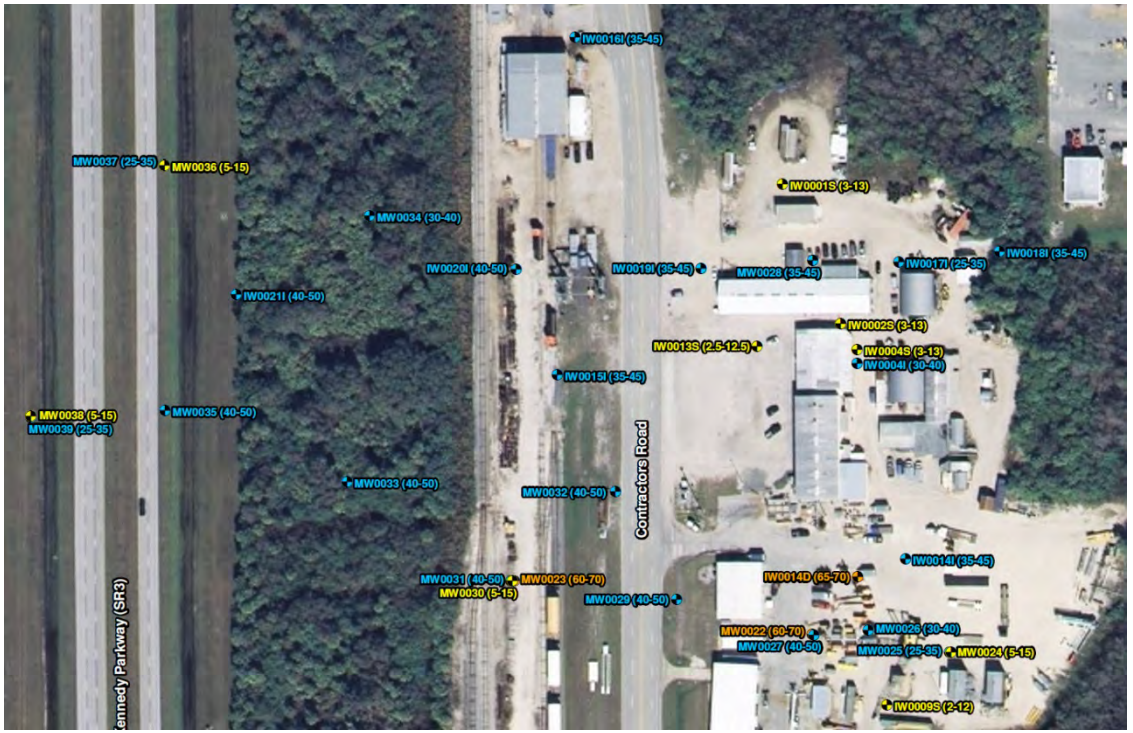
Current Monitoring Well Network

- 17 shallow (<15 ft BLS) (yellow)
- 23 intermediate (25 to 50 ft BLS) (blue)
- 3 deep wells (>60 ft BLS) (orange)



Objectives

Site Overview/ Background

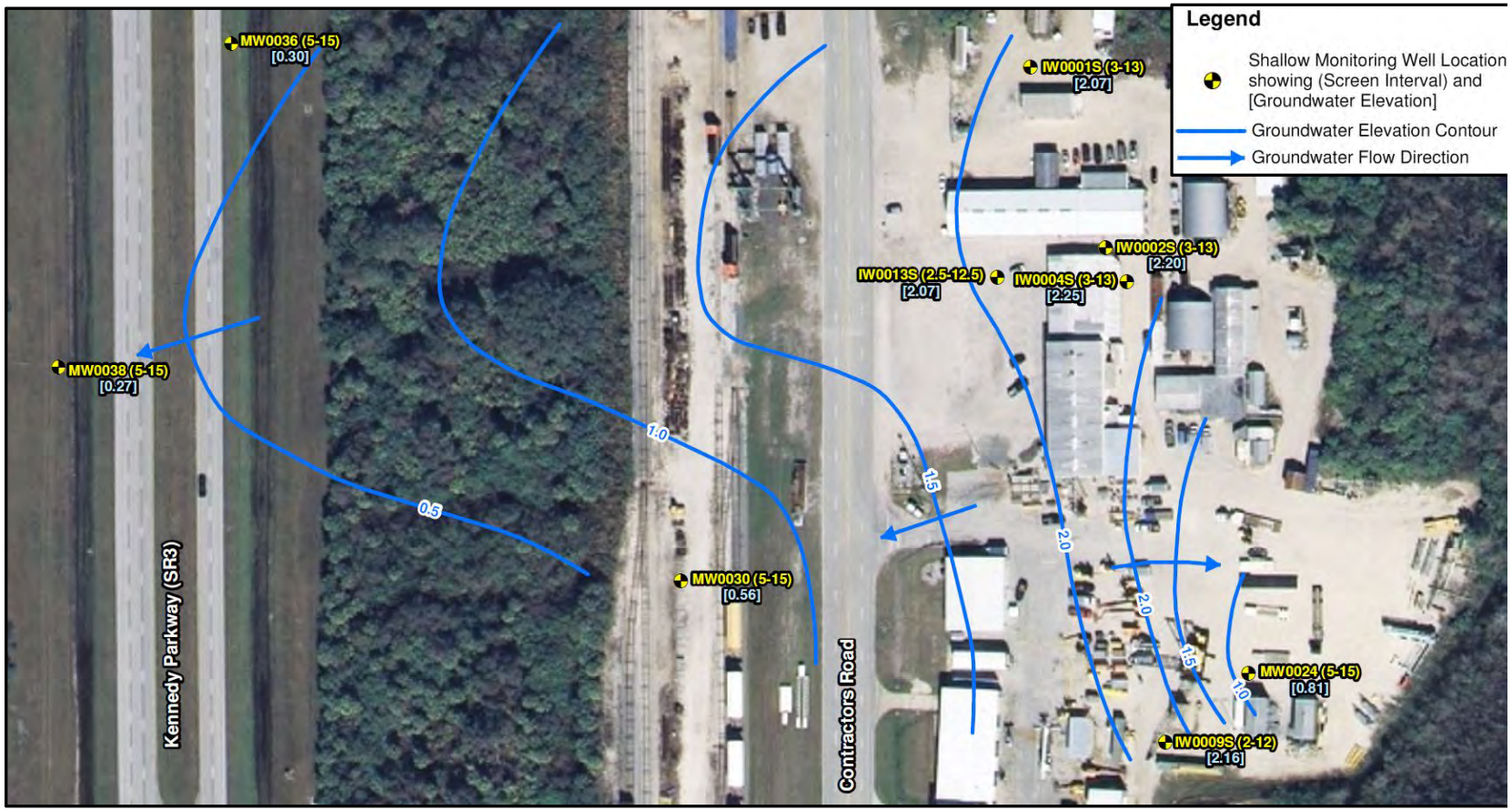
Site Conditions

Plume Delineation

Test Consensus

Geosyntec consultants

Shallow Groundwater Flow



March 2012

Figure 4

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Intermediate Groundwater Flow

Objectives

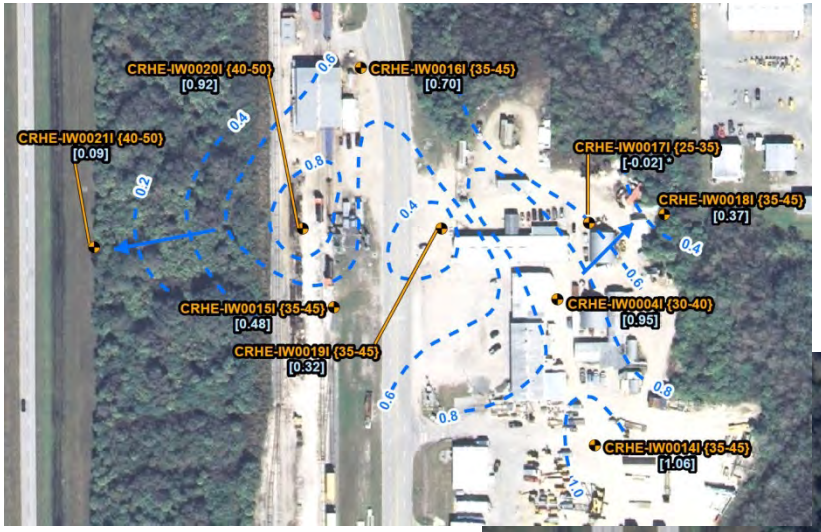
Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

November 2009



Legend

- Intermediate Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Inferred Groundwater Elevation Contour
- Groundwater Elevation Contour
- Groundwater Flow Direction

March 2012

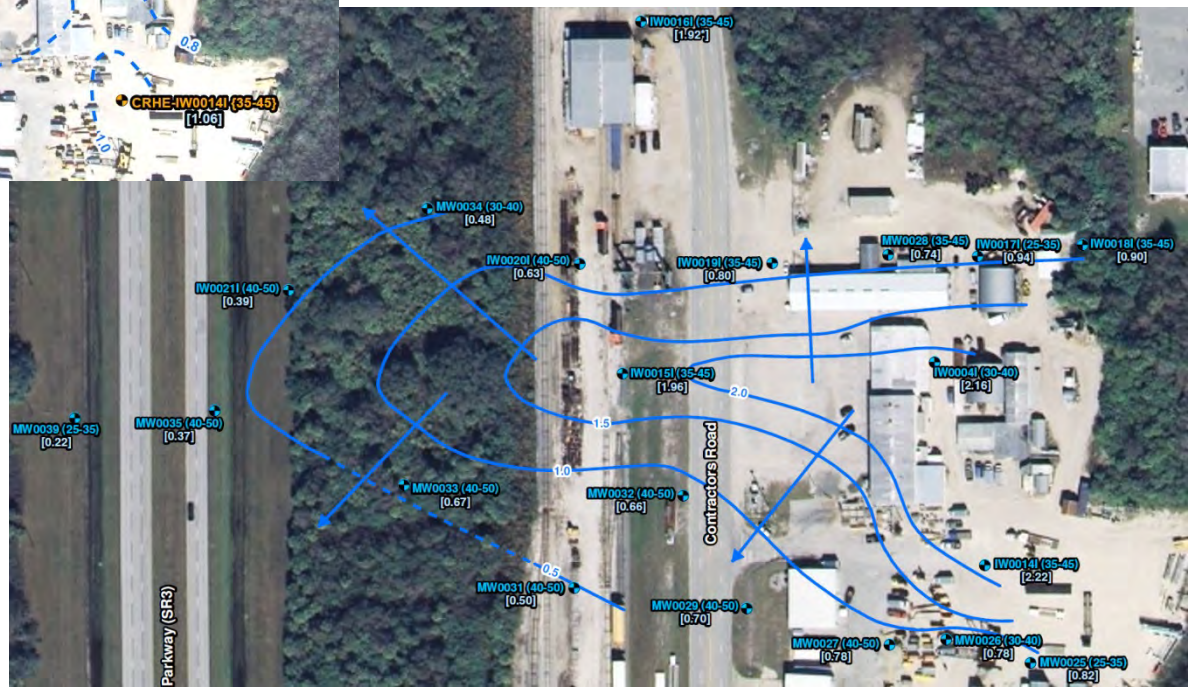


Figure 5

Deep Groundwater Flow

March 2012

Figure 6

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

Hydrogeologic Site Conditions

- General groundwater flow direction
  - *Shallow: W to SW*
  - *Intermediate: NW and SW*
  - *Deep: SE (based on 3 wells in southern portion of site)*
- Depth to Groundwater 2 to 6 ft BLS
- K of 7.6 ft/d (2,758 ft/yr) from specific capacity tests on shallow and intermediate wells during RFI

GW Zone	Approx. Depth (ft, BLS)	Average Gradient (ft/ft)	Est. GW Flow Velocity (ft/y)
Shallow	<15	0.002	28 ft/y
Intermediate	15 to 55	0.005	69 ft/y
Deep	>60	0.002	--

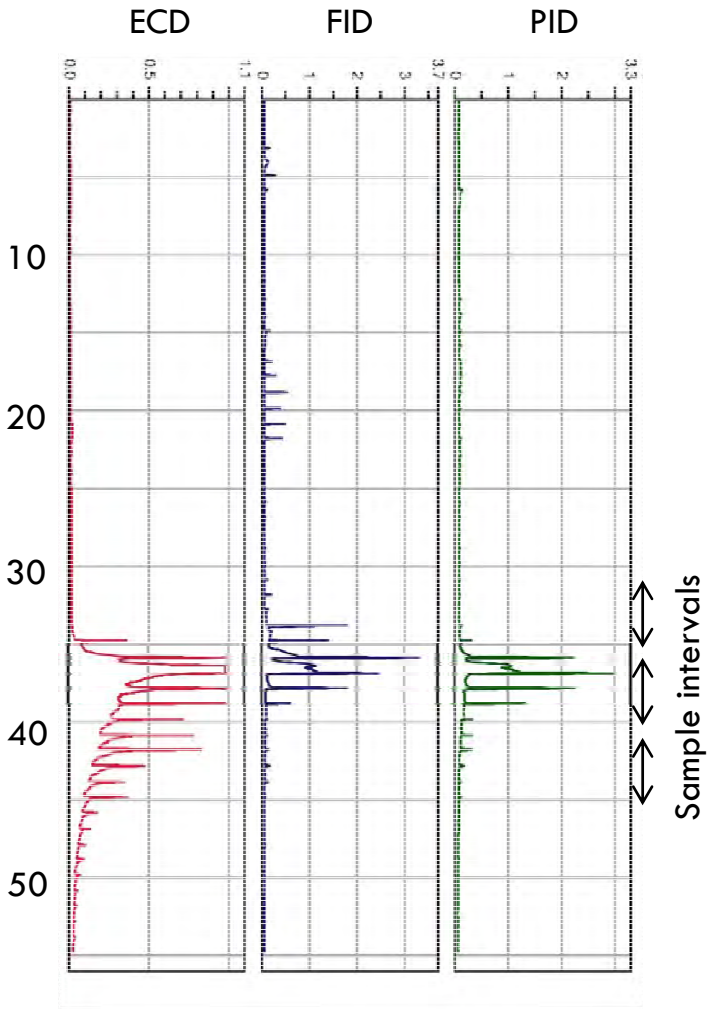
-- = not calculated, site-specific hydraulic data not available for this groundwater zone.
Assumed porosity of 0.20.

Response to Comment

TT #1: The conversion for the K value from ft/d to ft/yr appears to be slightly miscalculated.

- *Data taken directly from RFI prepared by others.*
- *Discrepancy is rounding difference of less than 1%.*

MIP Results



MIP001

DPT072			
Interval (ft, BLS)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)
8 to 12	1.0 U	1.0 U	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U
26 to 30	1.0 U	1.0 U	1.2
36 to 40	**160,000**	**48,000**	**4,600**
41 to 45	**1,300**	**570**	**54**
46 to 50	**24.0**	4.7	1.0 U
56 to 60	**210**	**100**	4.0 J
61 to 65	**43.8**	15.8	1.0 U

DPT100			
Interval (ft, BLS)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)
8 to 12	1.0 U	1.0 U	1.0 U
12 to 16	1.0 U	1.0 U	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U
21 to 25	1.0 U	1.0 U	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U
31 to 35	**21,000**	**31,000**	**7,400**
36 to 40	**32,000**	**59,000**	**17,000**
41 to 45	**210**	**380**	**72.0**
46 to 50	**19.5**	28.0	**5.4**

Yellow highlighting indicates concentrations above NADCs.

Response to Comment

Arcadis General #1: In SZ, spacing is ~35 to 50 ft. A MIP boring was advanced adjacent to DPT72 with good correlation between MIP response & DPT GW data; however, no additional MIPs were conducted in SZ.

- *2 days of MIP was planned but equipment malfunctioned.*
- *Objective of MIP was to identify mass distribution in SZ to confirm sample intervals.*
- *Objective met and proceeded with DPT sampling.*
- *Spacing between SZ DPT locations is 13 to ~50 ft.*
- *Additional sampling locations proposed.*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Response to Comment

TT #2: Please reference the yellow highlighting for the analytical results for DPT072 and DPT100 represent, possibly concentrations greater than NADC?

Slide has been revised.

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

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DPT and MW locations

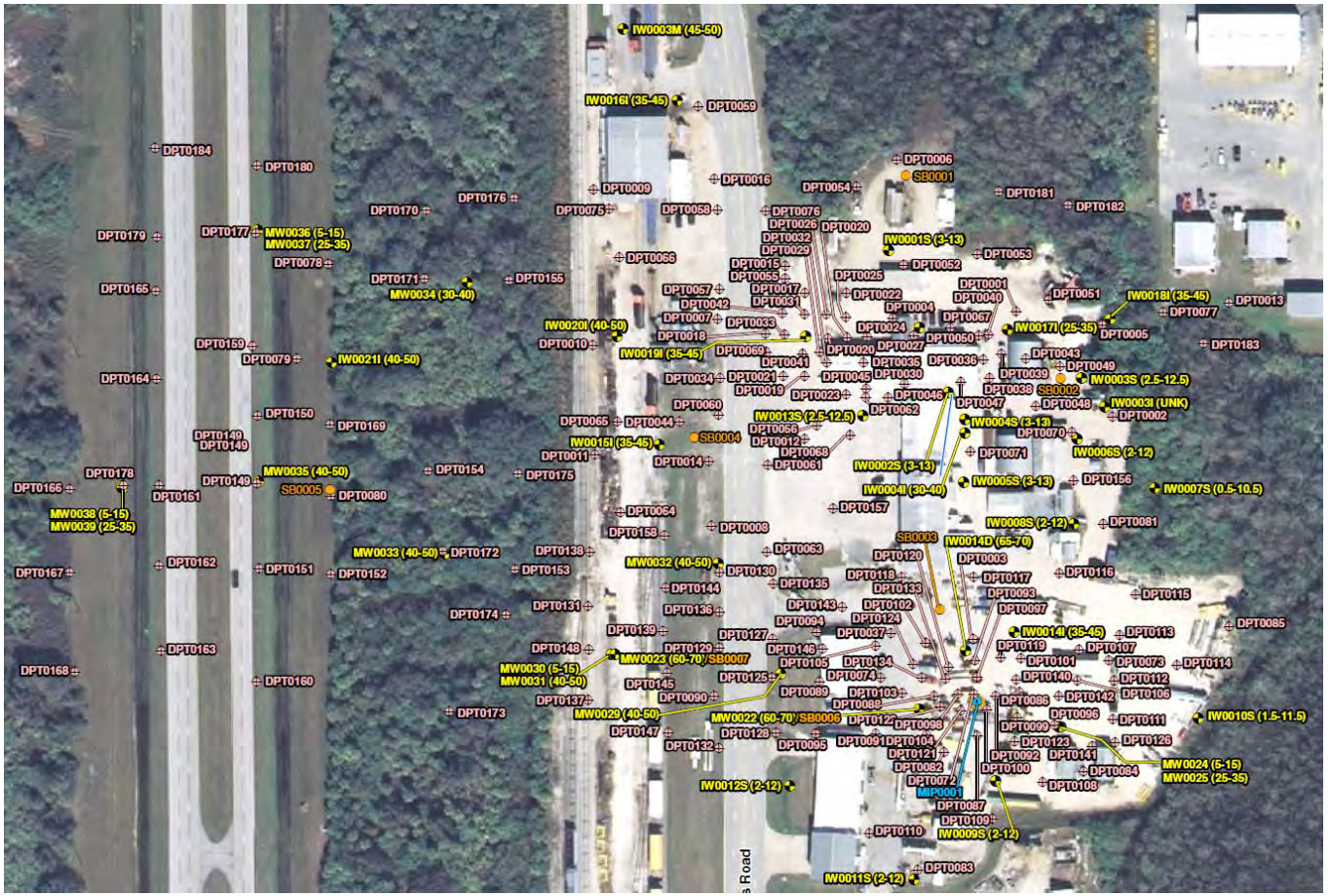

Figure 7

Spider diagrams included as Figures 8 and 9 (not included in presentation)

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

TCE 8 to 16 ft BLS

Contours that are based solely on non-detect values with elevated detection limits are shown with dashed lines and no shading.

Figure 10

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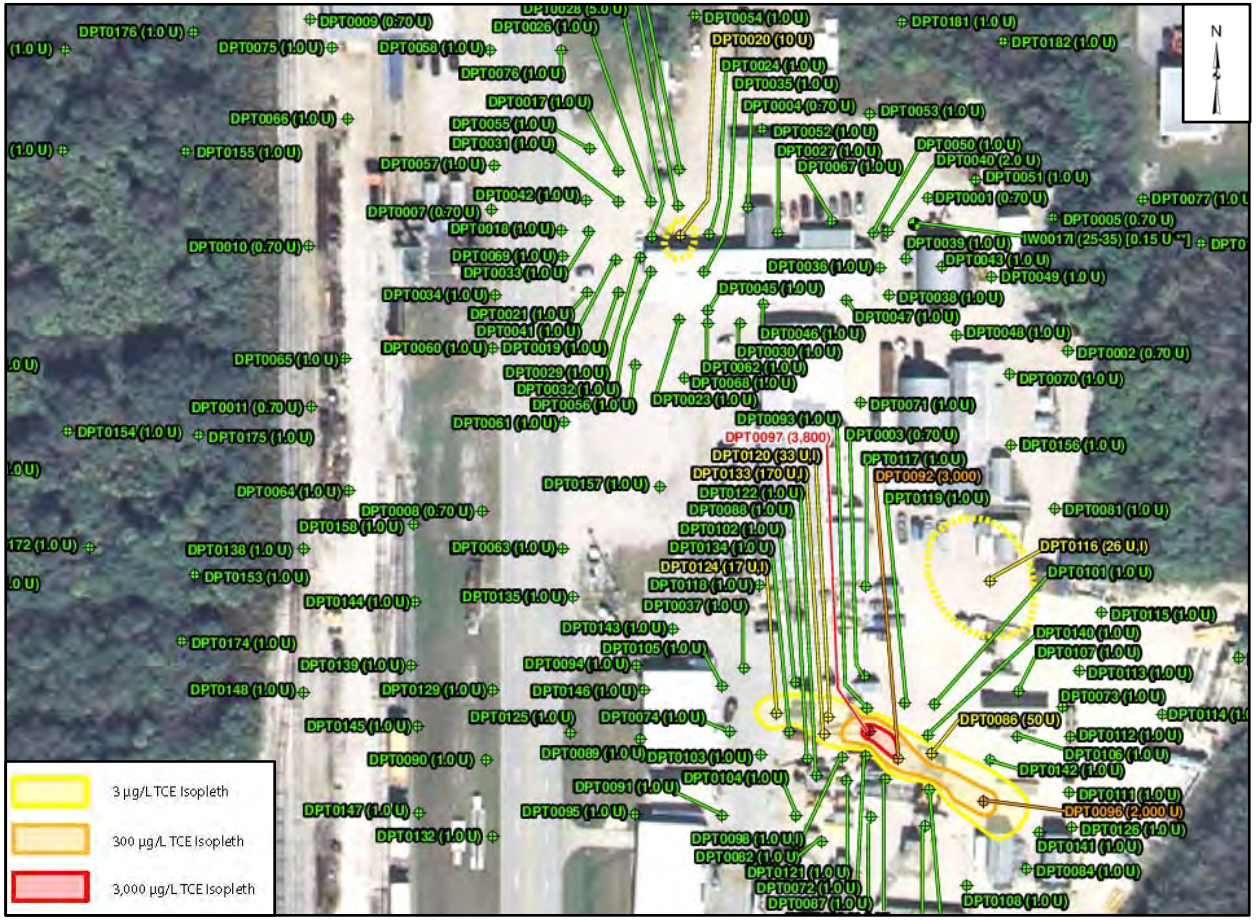
TCE 16 to 31 ft BLS



Contours that are based solely on non-detect values with elevated detection limits are shown with dashed lines and no shading.

Figure 11

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

Response to Comment

TT #3: SE plume with HS area is defined by one detection and multiple elevated DLs. Will data set suit for future remedial decision making? HCP footprint potentially overestimated.

- *TCE HCP is defined by 2 detections (3,000 µg/L at DPT92, 3,800 µg/L at DPT97) and elevated DL in 3rd loc (2,000 U at DPT96).*
- *cDCE and VC confirm that overall HCP is well-defined (i.e., cDCE of 22,000 µg/L at DPT92, 34,000 µg/L at DPT96, and 52,000 µg/L at DPT97, and VC of 2,600 µg/L at DPT92, 7,700 µg/L at DPT96, and 1,500 µg/L at DPT97).*
- *These locs are surrounded by NDs.*
- *HCP based on true NADC exceedances and focus of proposed remedial action will not be driven by elevated DLs.*

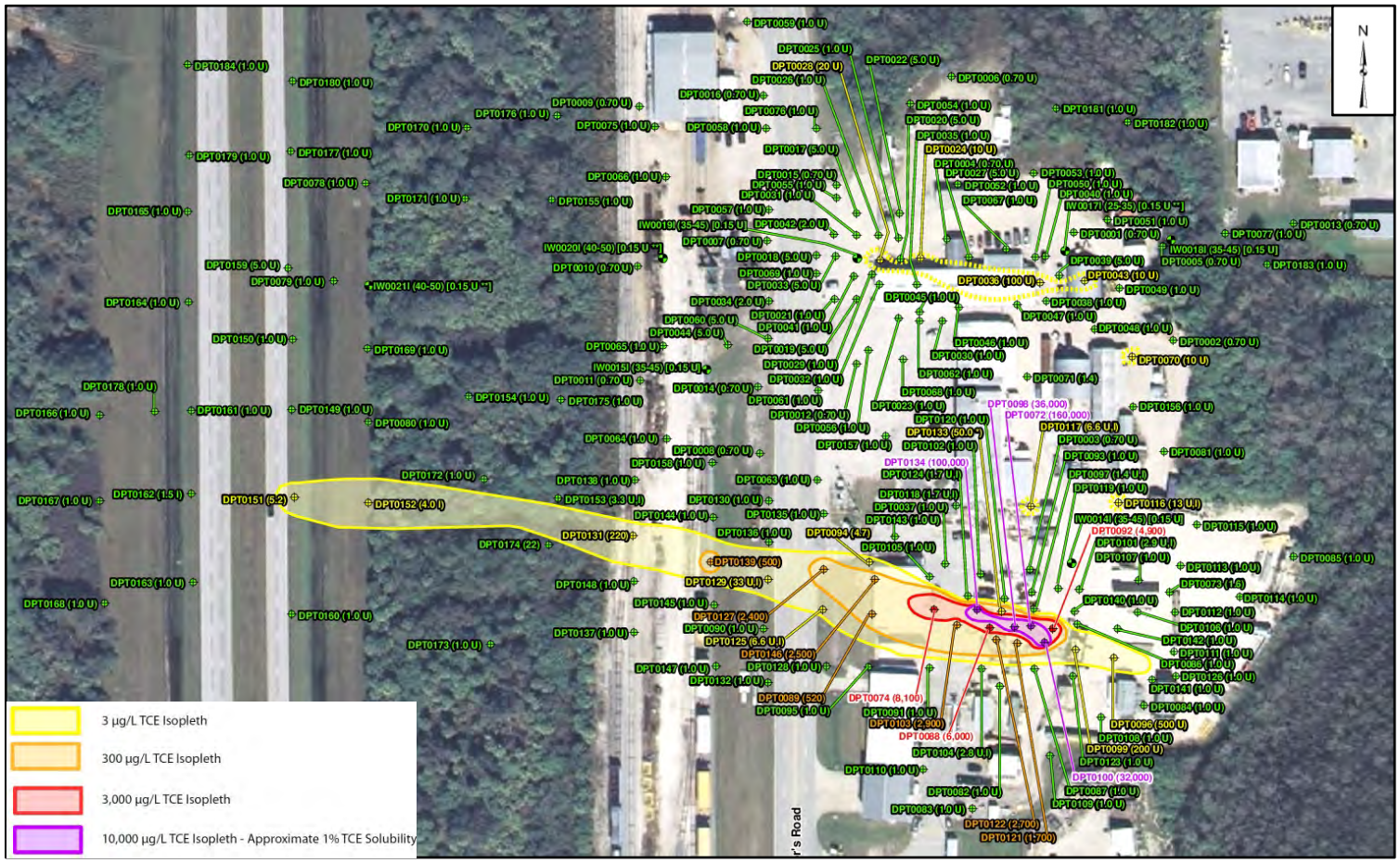
Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Response to Comment

Arcadis #1: TCE plumes are conservatively interpreted based on elevated DLs at locs such as DPT116/DPT20...consideration should be given to collecting confirmation samples to simplify CSM and refine affected distribution of COCs.

- *Elevated DL for TCE surrounded by DPT locations at less than 25 ft spacing with results of 1 U.*
- *Relatively low concentrations in this area (primarily of VC) so this will not affect any proposed remedial strategy.*

TCE 31 to 46 ft BLS



Contours that are based solely on non-detect values with elevated detection limits are shown with dashed lines and no shading.

Figure 12

TCE >46 ft BLS

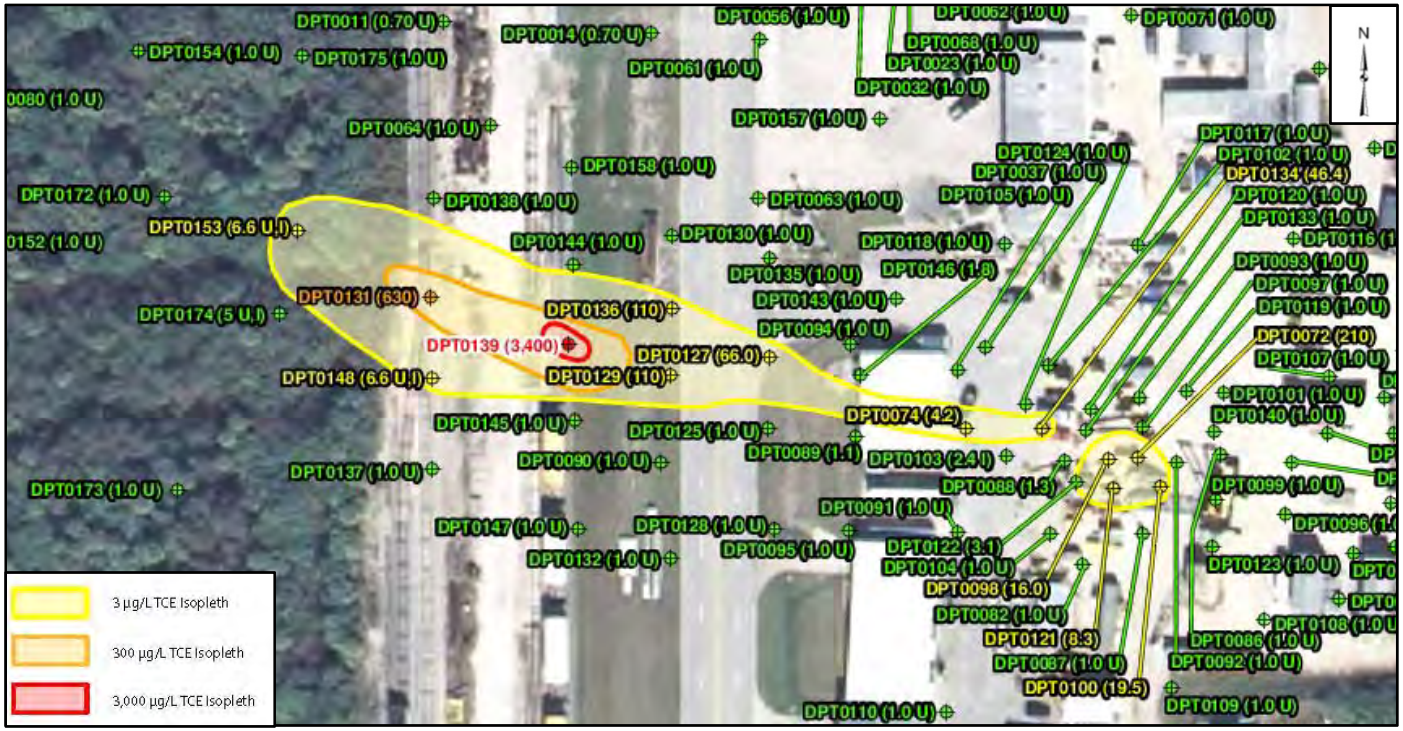


Figure 13

Response to Comment

Arcadis #2: The contouring should be re-evaluated based upon FDEP Rounding Memorandum…

Isopleths on TCE>46, VC 16-30, 31-46, and >46 ft BLS have been revised.

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Geosyntec consultants

Response to Comment

Arcadis General #2: Near DPT139, closest borings to W and E are ~100 ft and 65 ft. Does CSM assume that contamination is from SZ or was there a separate release that may have occurred adjacent to the RR?

- *Current CSM - impacts are remnants from identified SZ.*
- *Unlikely that separate release would result in dissolved plume with geometry that so closely mimics that of centerline of main plume.*
- *Increased drainage around RR, wooded areas, and from paved surfaces that could potentially cause plume to appear divided.*
- *Additional DPT locations proposed on 25 ft spacing to confirm data set.*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

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cDCE 8 to 16 ft BLS

Figure 14

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

cDCE 16 to 30 ft BLS

Figure 15

Geosyntec consultants

cDCE 31 to 46 ft BLS

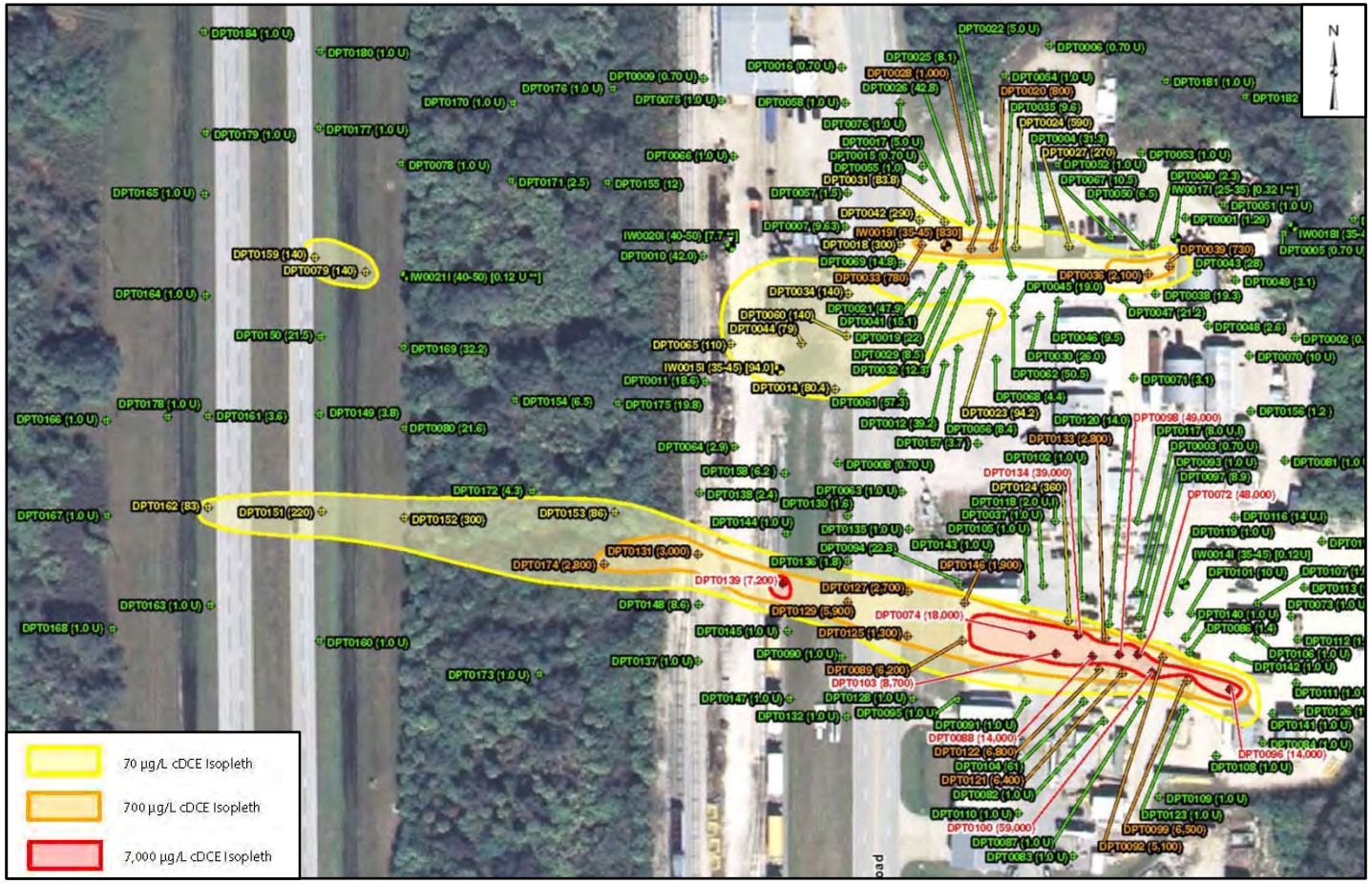

Figure 16

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

Response to Comment

TT Comments #4, 5, 8: Further delineation around DPT174 to W and SW may be necessary.

- *Area typically wet and/or submerged.*
- *Accessible areas were sampled on grid pattern.*
- *Given GW flow direction and shape of dissolved plume, DPT dataset provides adequate data at this time since this area will not likely be remediated in near future.*
- *Additional sampling locations are proposed.*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

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cDCE >46 ft BLS

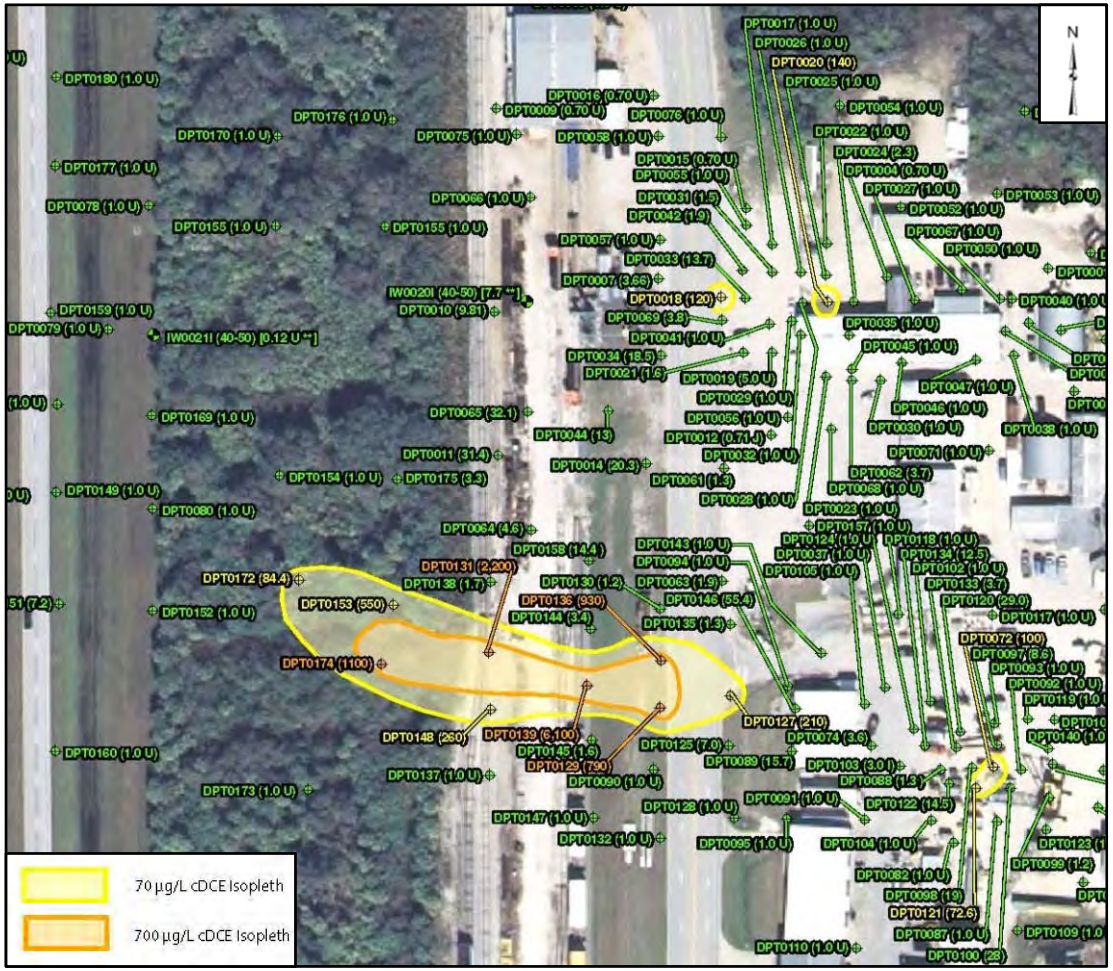

Figure 17

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

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VC 8 to 16 ft BLS

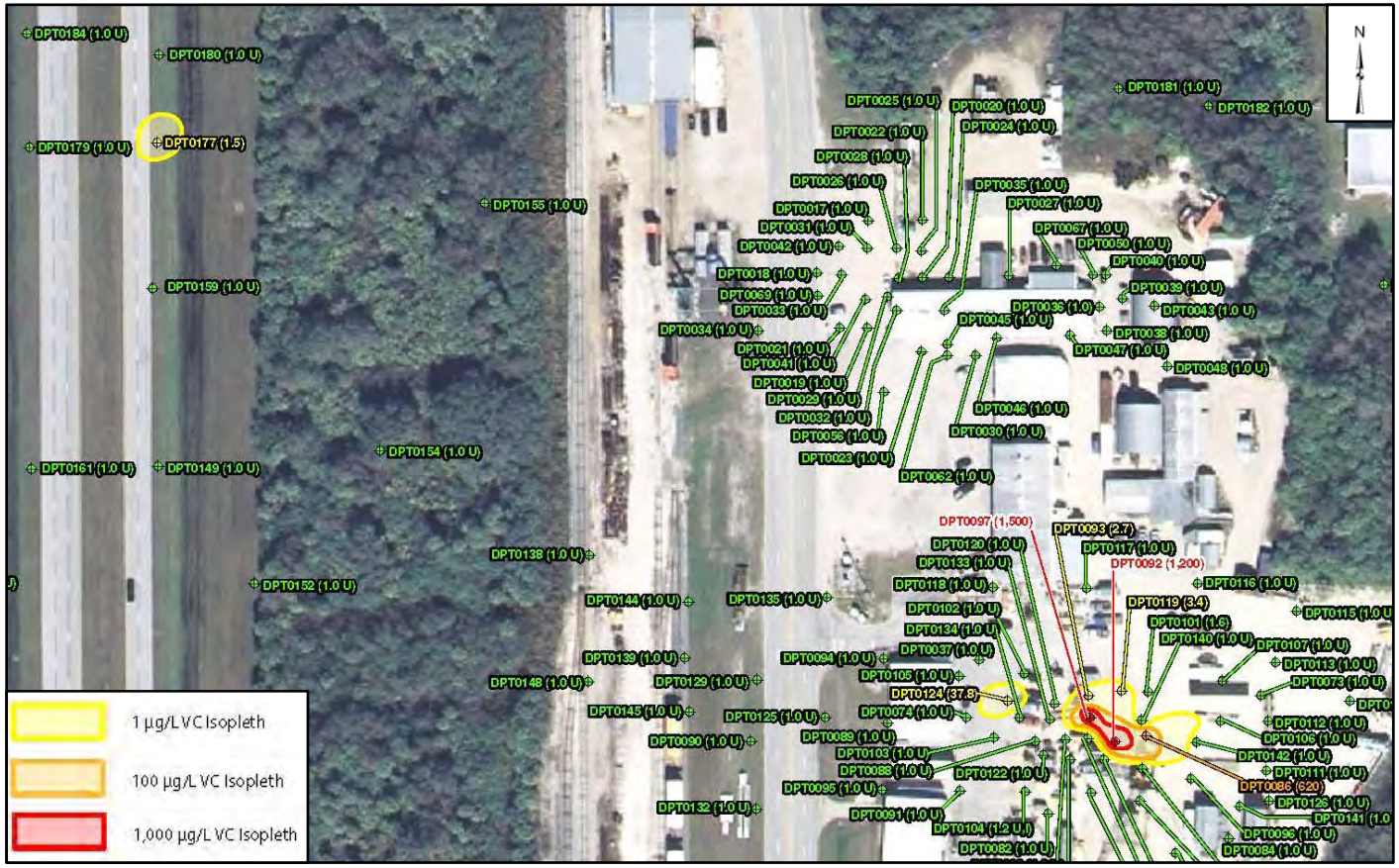

Figure 18

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

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VC 16 to 30 ft BLS

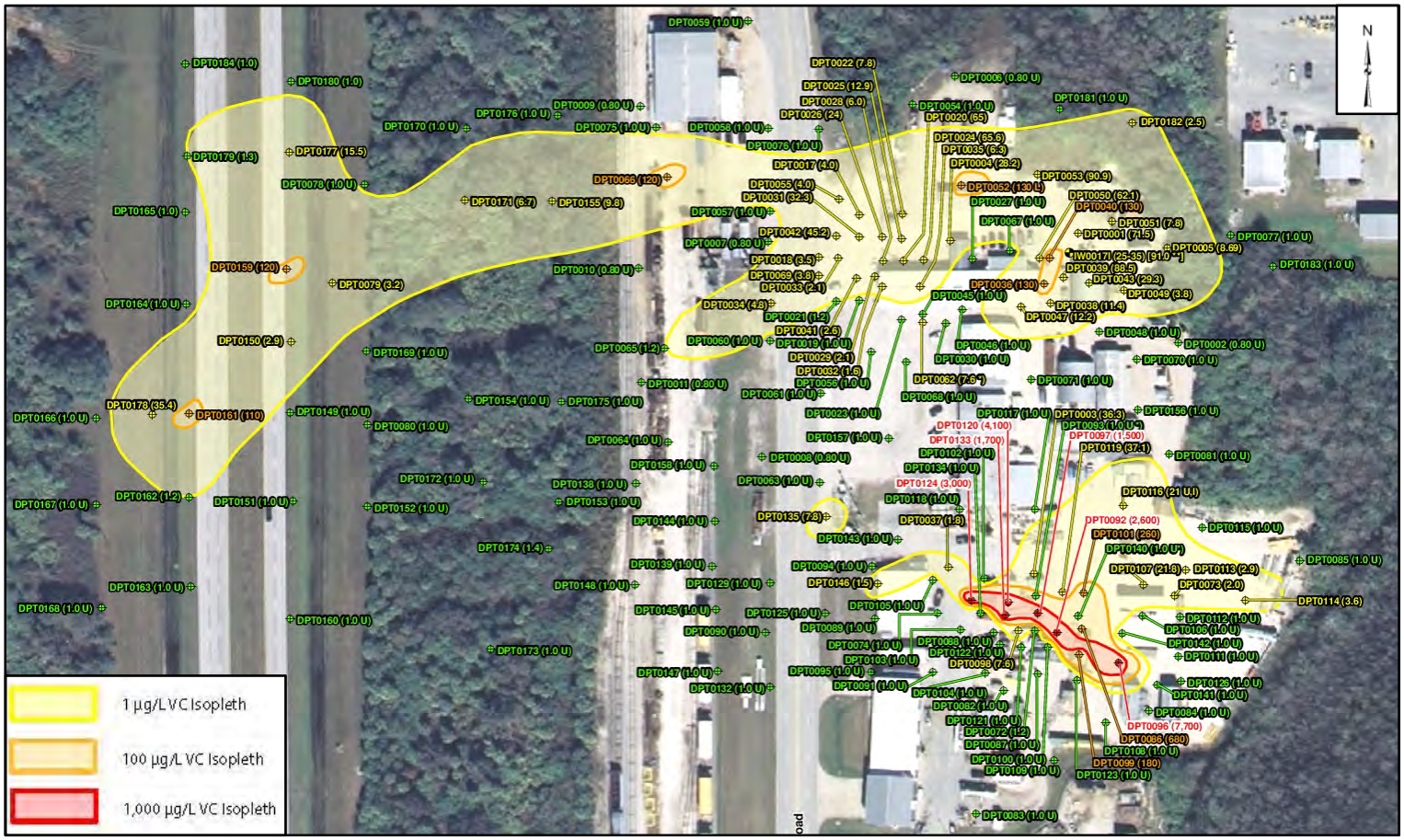

Figure 19

Response to Comment

TT #6: Recommend further delineation of NADC exceedances at DPT159, DPT66, and DPT52, detected in N portion of site to attain recommended criteria of 50 ft spacing for HCP (Fig 19).

- *Concentrations not significantly above NADCs (120 to 130 µg/L).*
- *Not parent compound (VC only).*
- *Additional locations are proposed.*

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VC 31 to 46 ft BLS

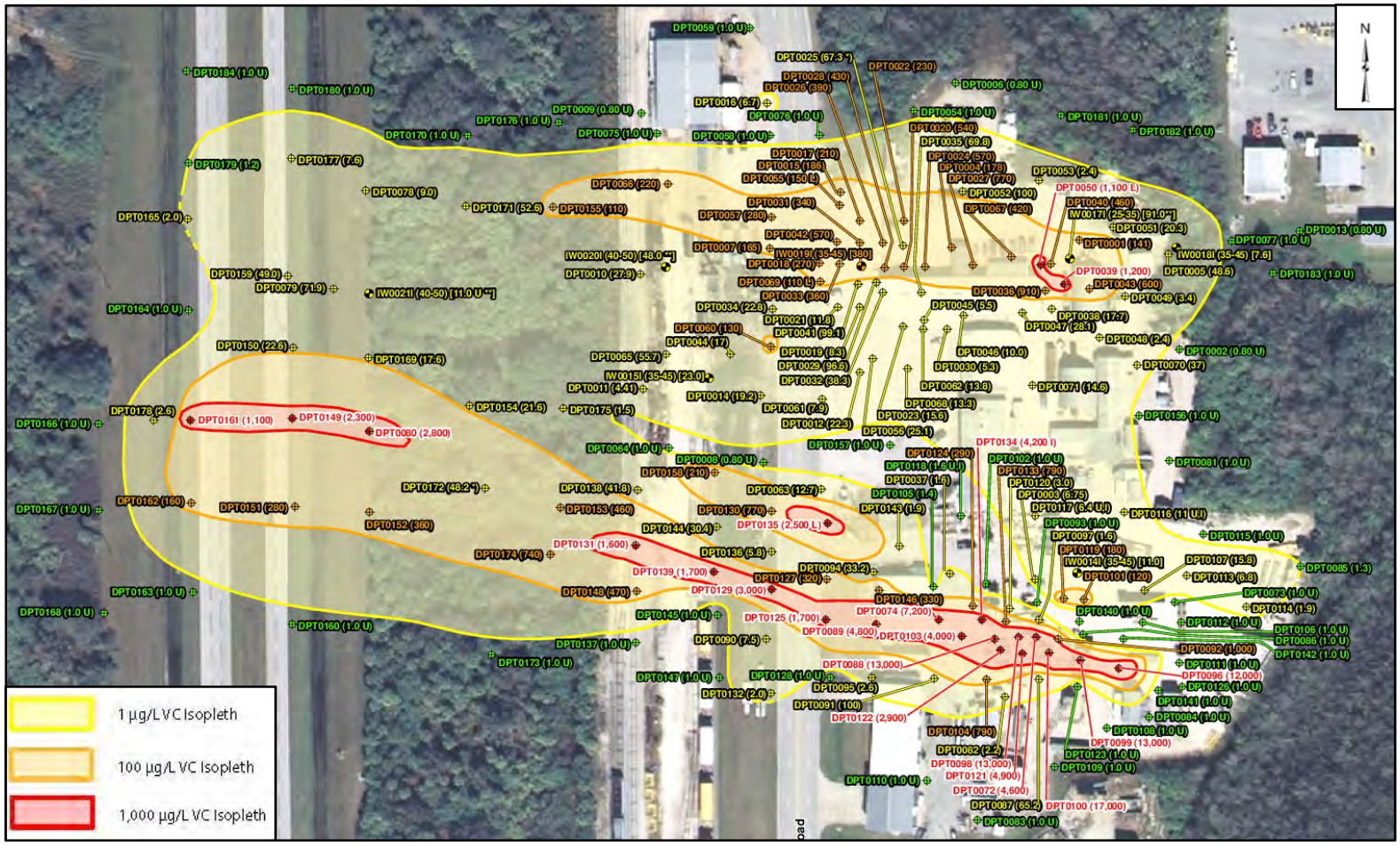

Figure 20

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Response to Comment

TT #7: Recommend tighter boundary data points around DPT80/149/161 HCP (Fig 20).

Additional sampling locations are proposed.

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Response to Comment

Arcadis #4: VC HS extends from TCE SZ toward DPT131…Another HS begins downgradient at DPT80. How does this separate HS fit into CSM…?

- *Current CSM assumes that downgradient HS associated with main SZ, not separate release.*
- *Unlikely that separate release would result in dissolved plume with geometry similar to centerline of main plume.*
- *Limited access for DPTs in the area.*
- *Additional sampling proposed in this area to refine the dataset if/when typically saturated area is accessible.*
- *No plans to clear cut the area.*

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

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VC >46 ft BLS

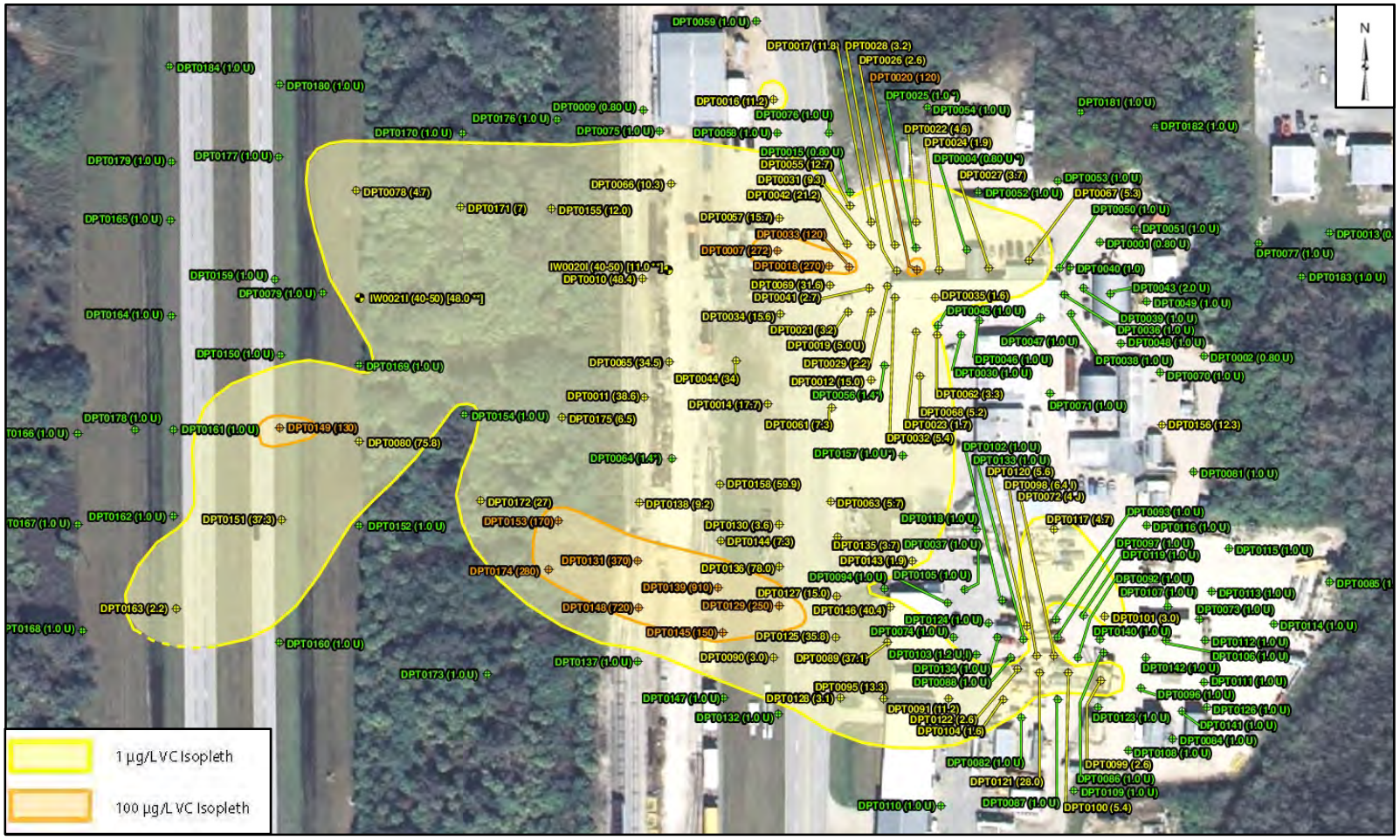

Figure 21

- Objectives
- Site Overview/ Background
- Site Conditions
- Plume Delineation
- Test Consensus

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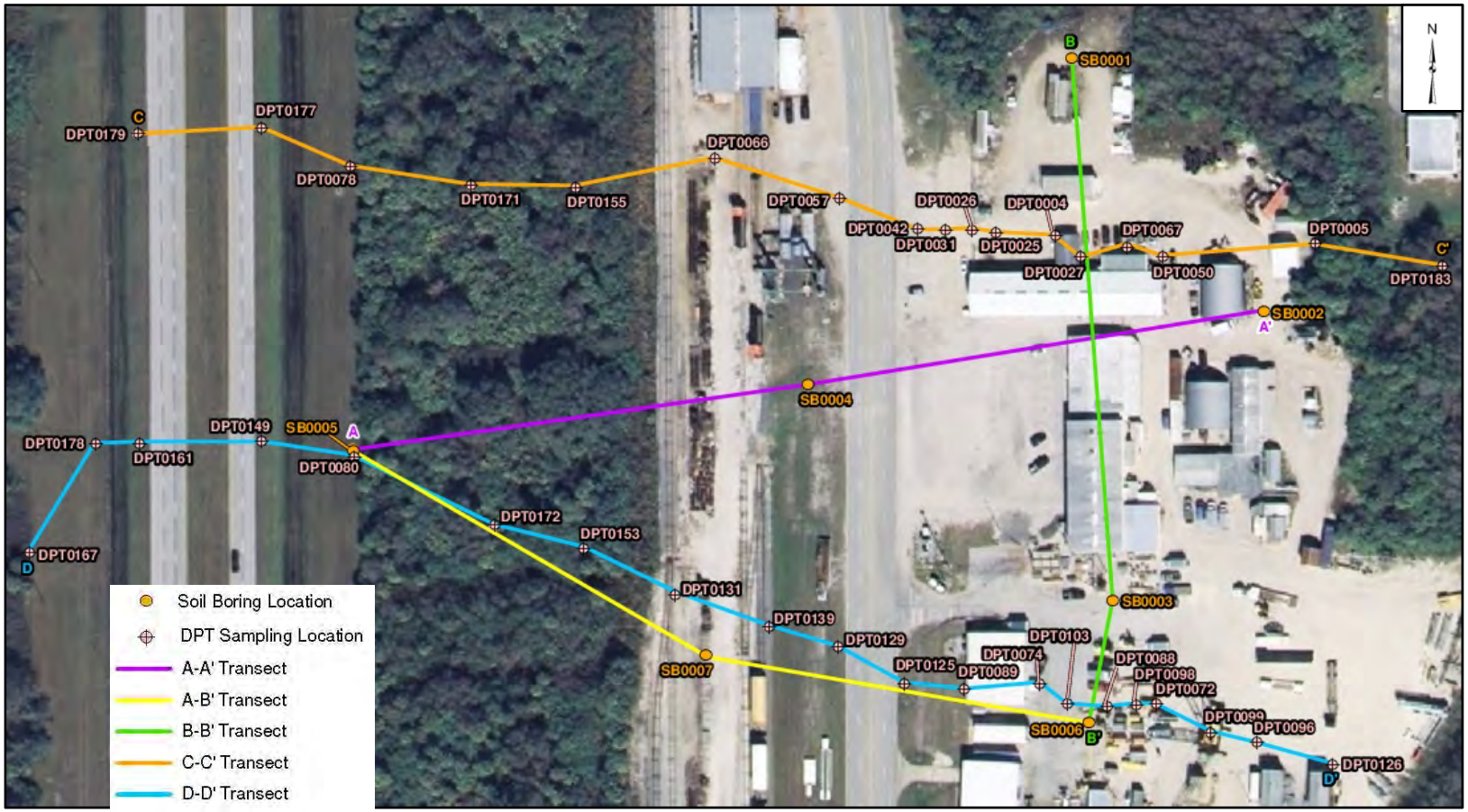
Cross Section Plan View



Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

CVOC Cross Section

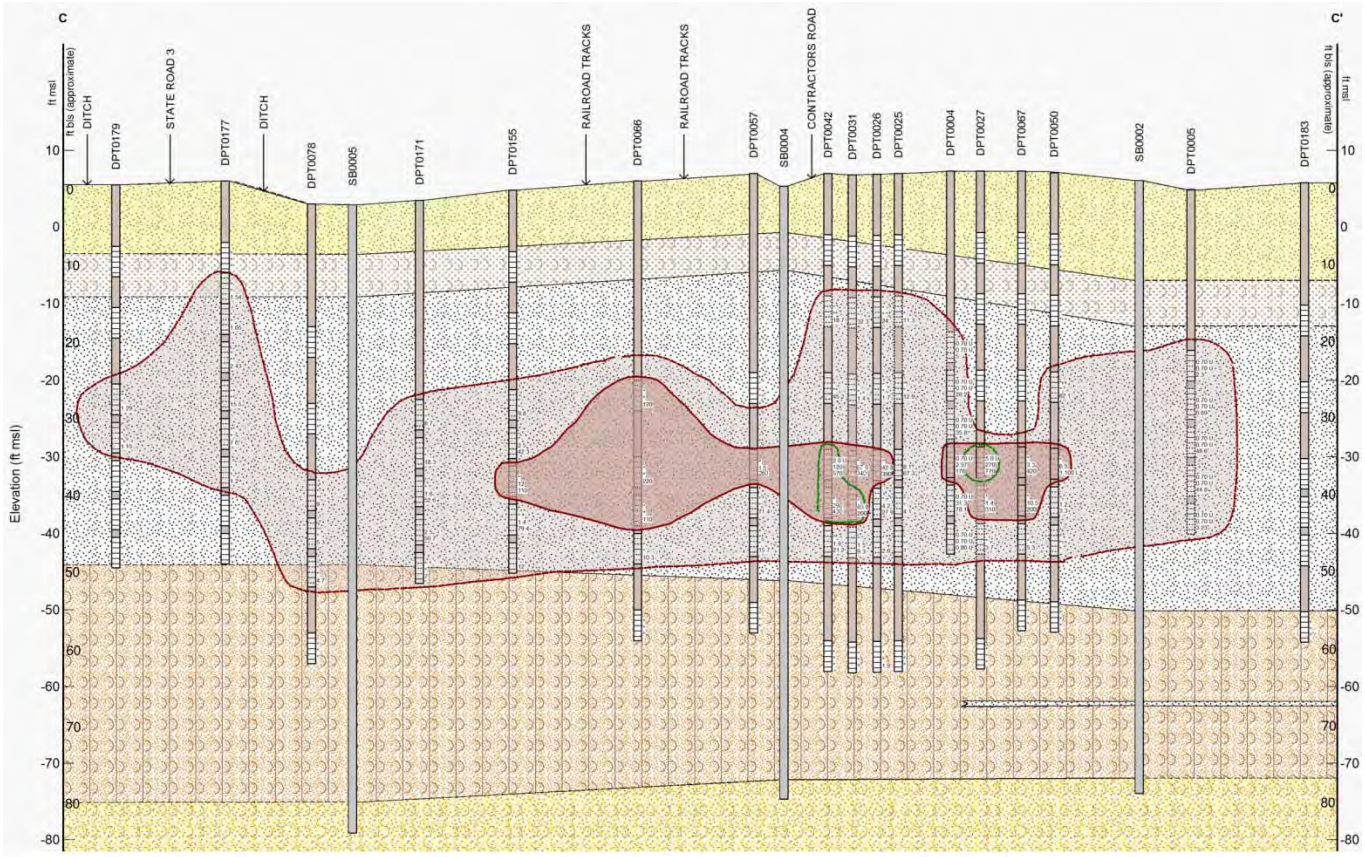


Figure 22

CVOC Cross Section

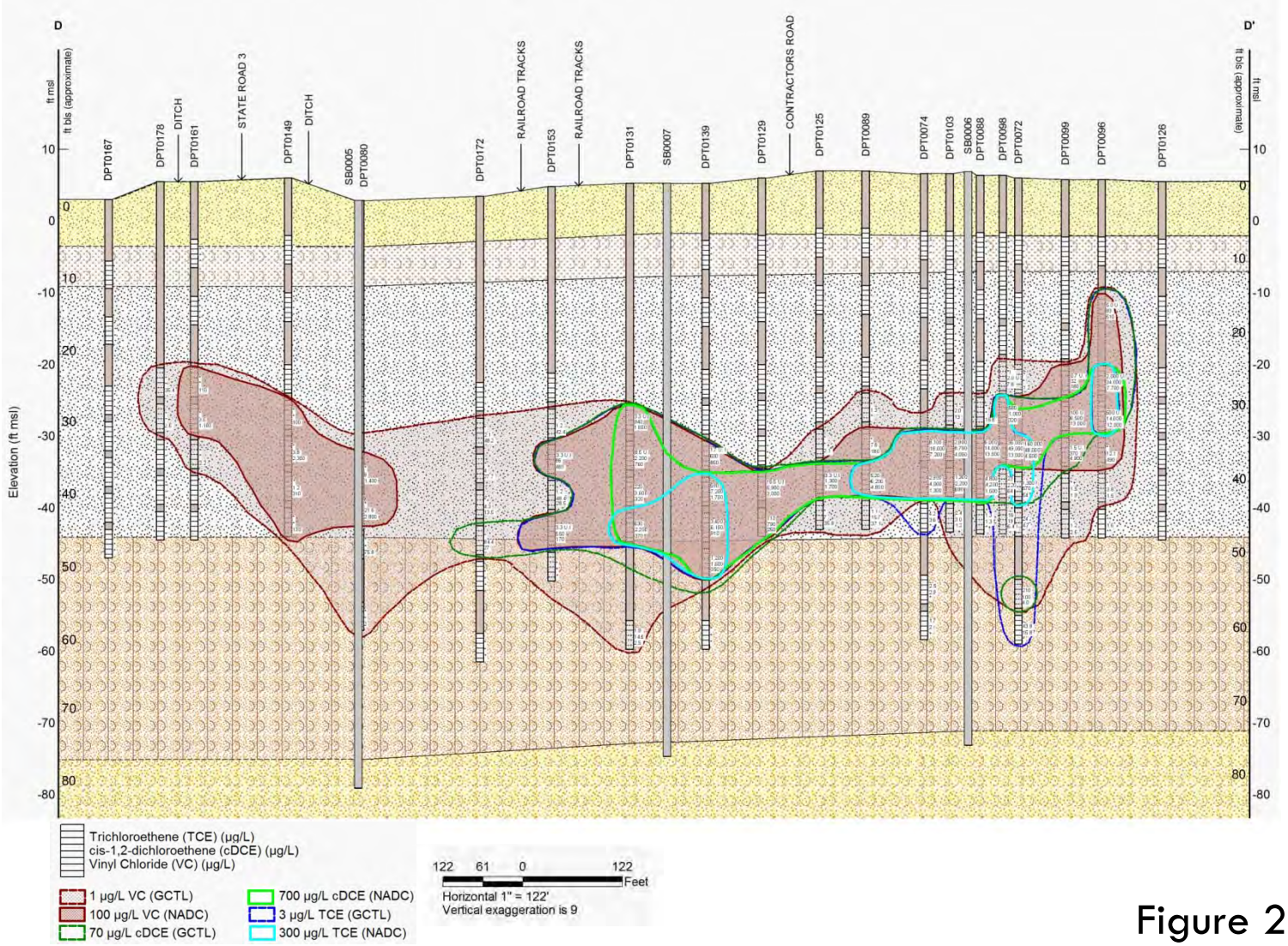


Figure 23

EVS Files

Objectives

Site Overview/ Background

Site Conditions

Plume Delineation

Test Consensus

Present EVS 4DIM files

Response to Comment

Arcadis #3: TCE in DPT72 at 43.8 µg/L at 61 to 65 ft BLS. Is TCE delineated to GCTLs at depth in this area?...

- *TCE at 56-60 and 61-65 ft in DPT72 likely associated with dragdown from 160,000 µg/L at 36-40 ft BLS.*
- *After sampling at this loc, driller replaced decon water more frequently to mitigate potential dragdown issues.*
- *Additional sampling proposed for confirmation sampling at 46-50 ft, 56-60 ft, and 61-65 ft BLS adjacent to DPT72.*
- *Vertical delineation well will be considered as part of performance network when/if active remediation proceeds in this area.*

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Response to Comment

Arcadis #5 and TT #9: VC>GCTLs in deepest samples...

- DPTs to 65 ft BLS across site at regular lateral intervals.
- Clean bottom samples at 78% of completed sample locs.
- VC>GCTL (59.9 to 720 µg/L) at indicated locs but these DPTs were terminated at 50 ft BLS, as planned.
- One of these locs, TCE>GCTL in deepest sample (DPT129). TCE vertically delineated at DPT139 (65 ft away).
- VC in DPT131 (2.5 µg/L) exceeds GCTL - single digit VC concentration.
- DPTs 136, 139, 64, 144, & 145 in immediate vicinity-clean bottoms at 60 to 65 ft BLS.
- Additional vertical delineation samples proposed, primarily in SZ, at locs where VC in deepest sample is above GCTL.

Objectives
Site Overview/ Background
Site Conditions
Plume Delineation
Test Consensus

Mass Evaluation

Depth (ft BLS)	Dissolved Mass (lbs)	Sorbed Mass (lbs)	Total Mass (lbs)
LCP			
8-16	0.2	5.6	6
16-31	4.5	6.4	11
31-46	53.5	17.2	71
>46	7.2	59.6	67
Total			**154**
HCP			
8-16	0.2	3.3	3
16-31	3.1	3.4	6
31-46	46.2	49.7	96
>46	7.0	16.6	24
Total			**129**
Hot Spots			
8-16	0.0003	0.0046	0.0049
16-31	1.3	2.1	3.4
31-46	36	41	77
>46	0.1	0.2	0.3
Total			**81**
TCE Source Zone			
8-16	0	0	0
16-31	0	0	0
31-46	4.7	10.9	15.7
>46	0	0	0
Total			**16**

Response to Comment

Arcadis #6: mass was only estimated for plume area >10x NADCs. It would be beneficial to have mass estimates for the SZ, HSs, HCP, and LCP for future use.

Mass estimates were updated to include estimates for SZ, HSs, HCP, and LCP.

Geosyntec consultants

Supplemental Assessment Summary

- Groundwater impacts observed between 8 and 50 ft BLS
- Max concentrations at 36 to 40 ft BLS
- Separate high concentration plumes (HCPs) identified on north and south portions of site
- TCE source zone identified in south portion of site
- Maximum concentrations (µg/L)

	North	*South*
	TCE = ND	*TCE = 160,000 (DPT72)*
	cDCE = 2,100 (DPT36)	*cDCE = 59,000 (DPT100)*
	VC = 1,200 (DPT39)	*VC = 17,000 (DPT100)*

Geosyntec consultants

Overall Plumes 8 to 50 ft BLS

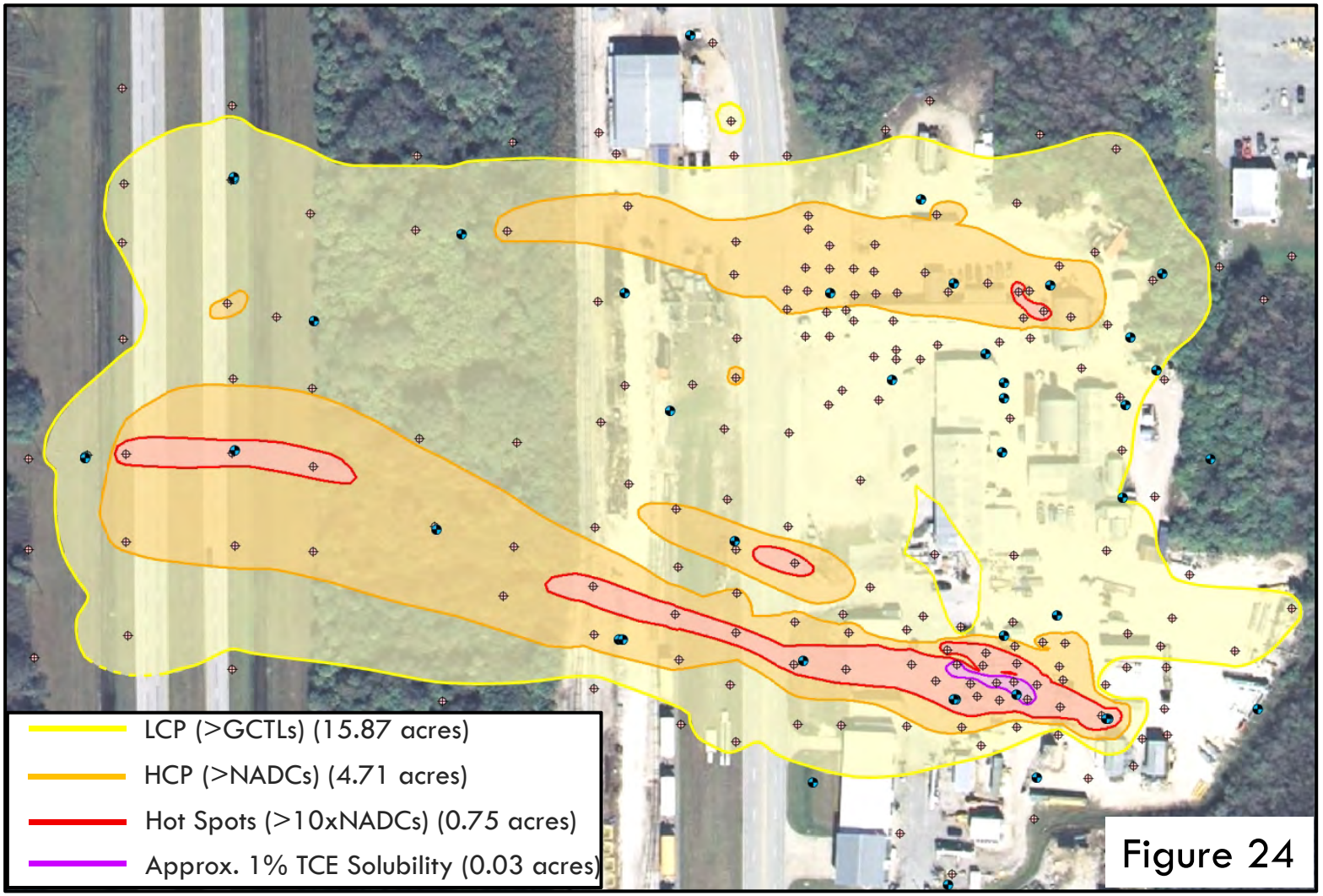


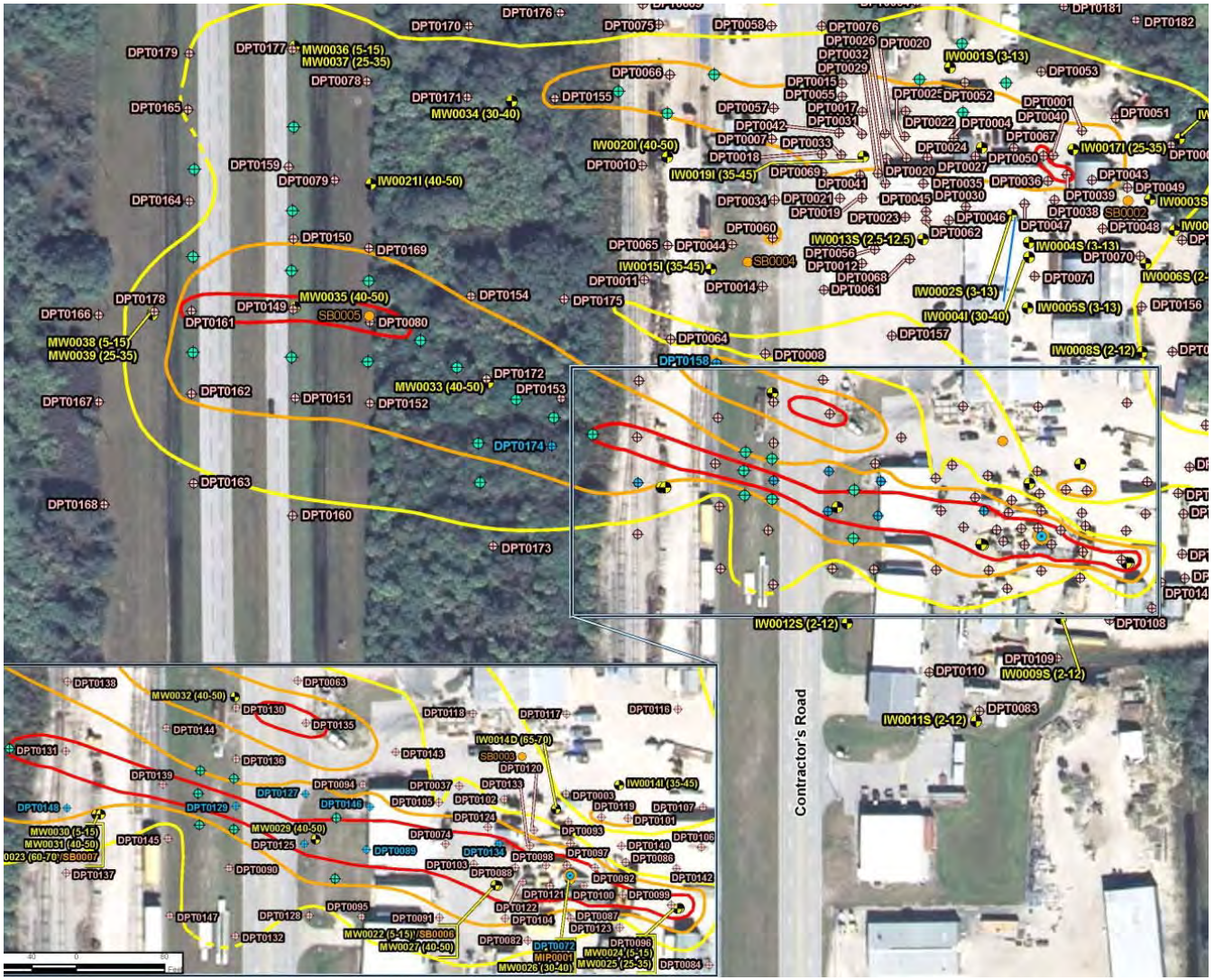
Figure 24

- Objectives
- Site Overview/ Background
- Site Conditions
- Plume Delineation
- Test Consensus

Geosyntec consultants

Test Consensus on Proposed DPT Locations

- Objectives
- Site Overview/ Background
- Site Conditions
- Plume Delineation
- Test Consensus



Path Forward

- Complete additional sampling
- Present Step 1B and include data gap results
  - *Plume maps*
  - *EVS*
  - *Mass estimates*
- Proceed with Step 2

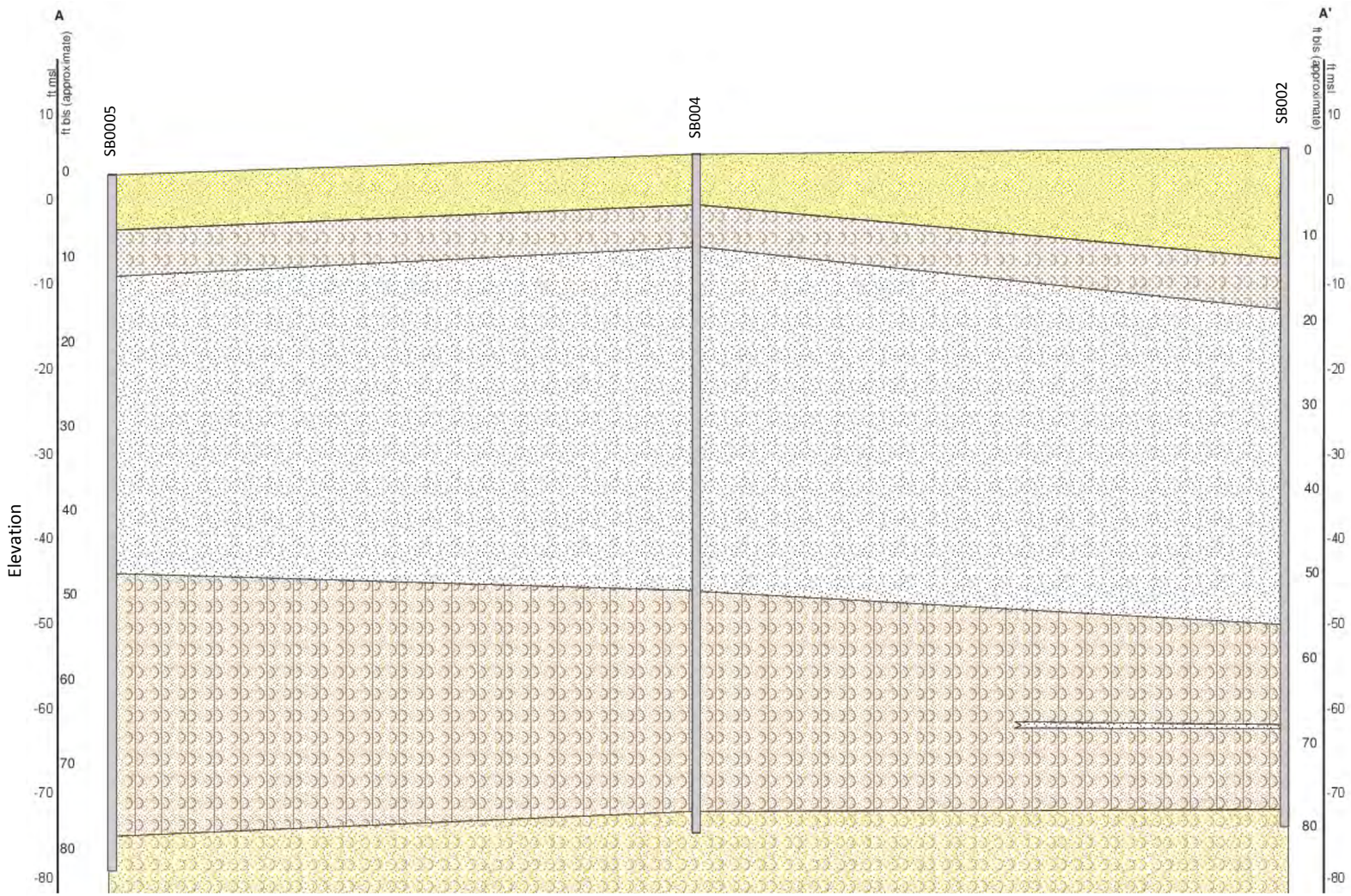
6770 South Washington Ave.

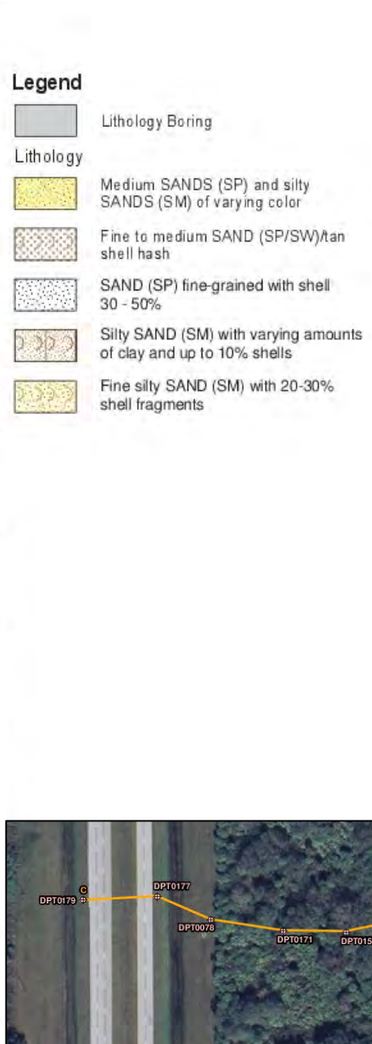
Titusville, FL 32780

321.269.5880

www.geosyntec.com

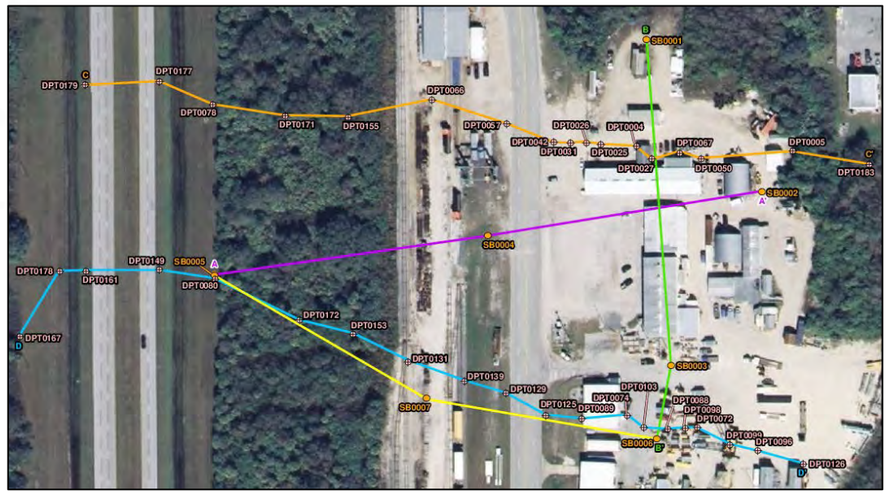
Geosyntec consultants





Notes:
1. ft indicate feet.
2. msl indicates mean sea level
3. bls indicates below land surface

78 39 0 78 Feet
Horizontal 1" = 78'
Vertical exaggeration is 6



Legend

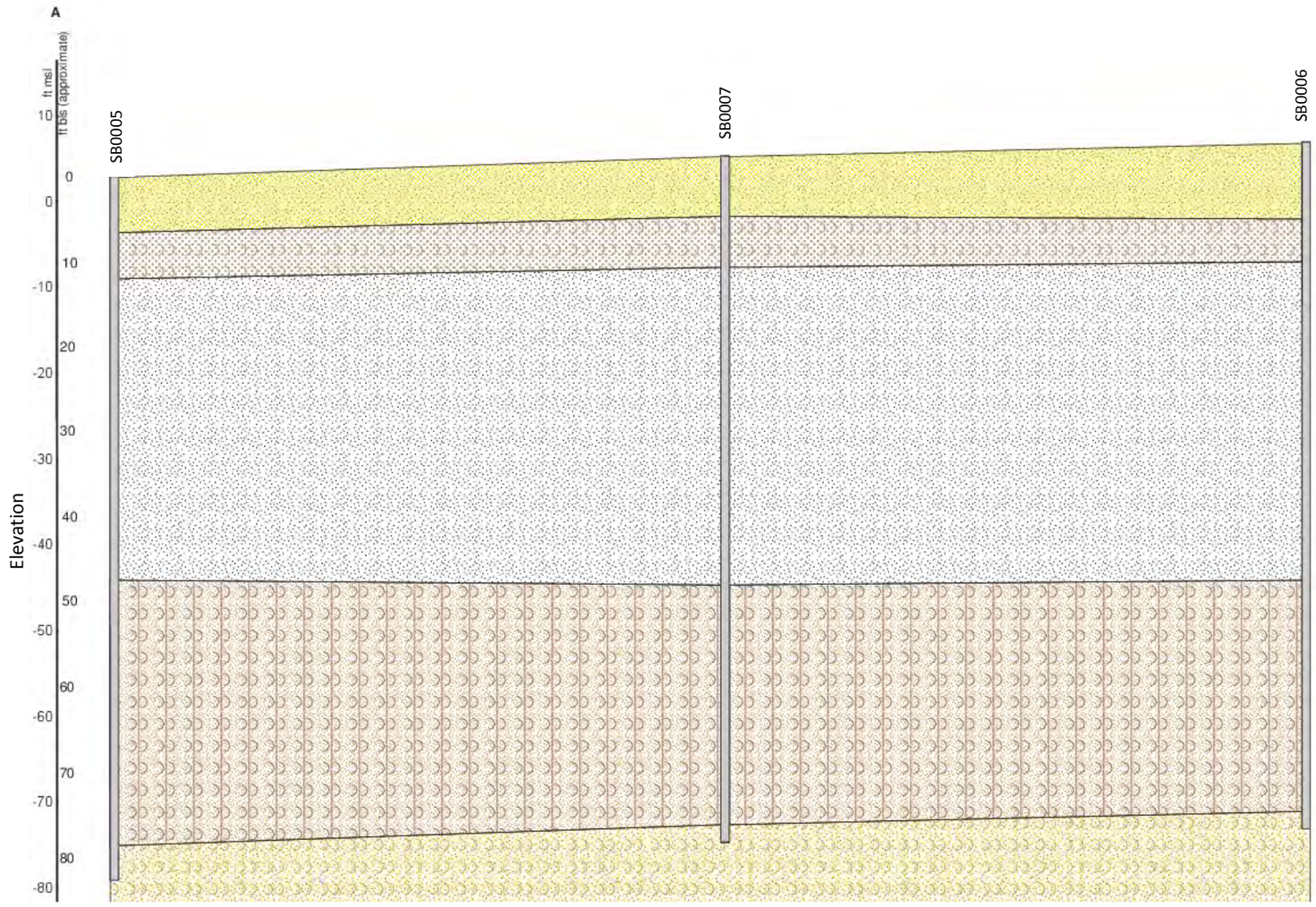
- Soil Boring Location
- DPT Sampling Location
- A-A' Transect
- A-B' Transect
- B-B' Transect
- C-C' Transect
- D-D' Transect

N

120 60 0 120 Feet

Notes: Prefix for all sampling location is "CRHE-"

Figure 1
Lithologic Cross Section A to A'



Notes:
1. ft indicate feet
2. msl indicates mean sea level
3. bls indicates below land surface

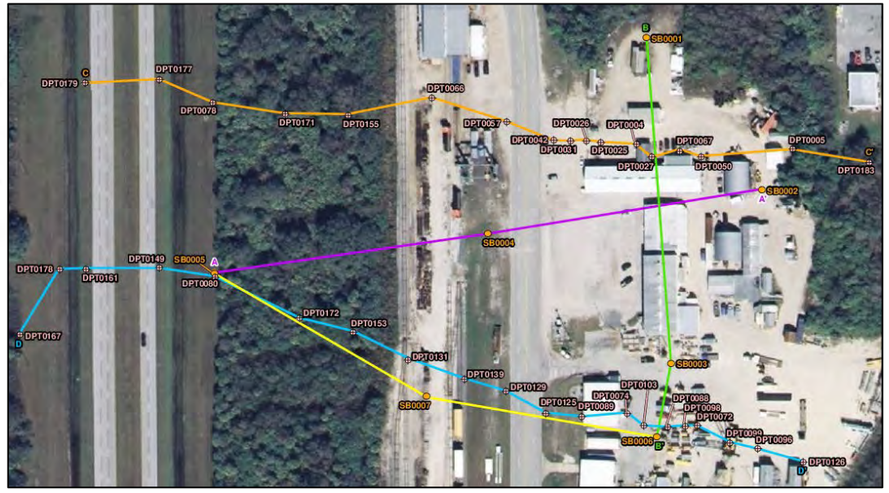
70 35 0 70 Feet
Horizontal 1" = 70'
Vertical exaggeration is 5.5

Legend

Lithology Boring

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with shell 30 - 50%
- Silty SAND (SM) with varying amounts of clay and up to 10% shells
- Fine silty SAND (SM) with 20-30% shell fragments



Legend

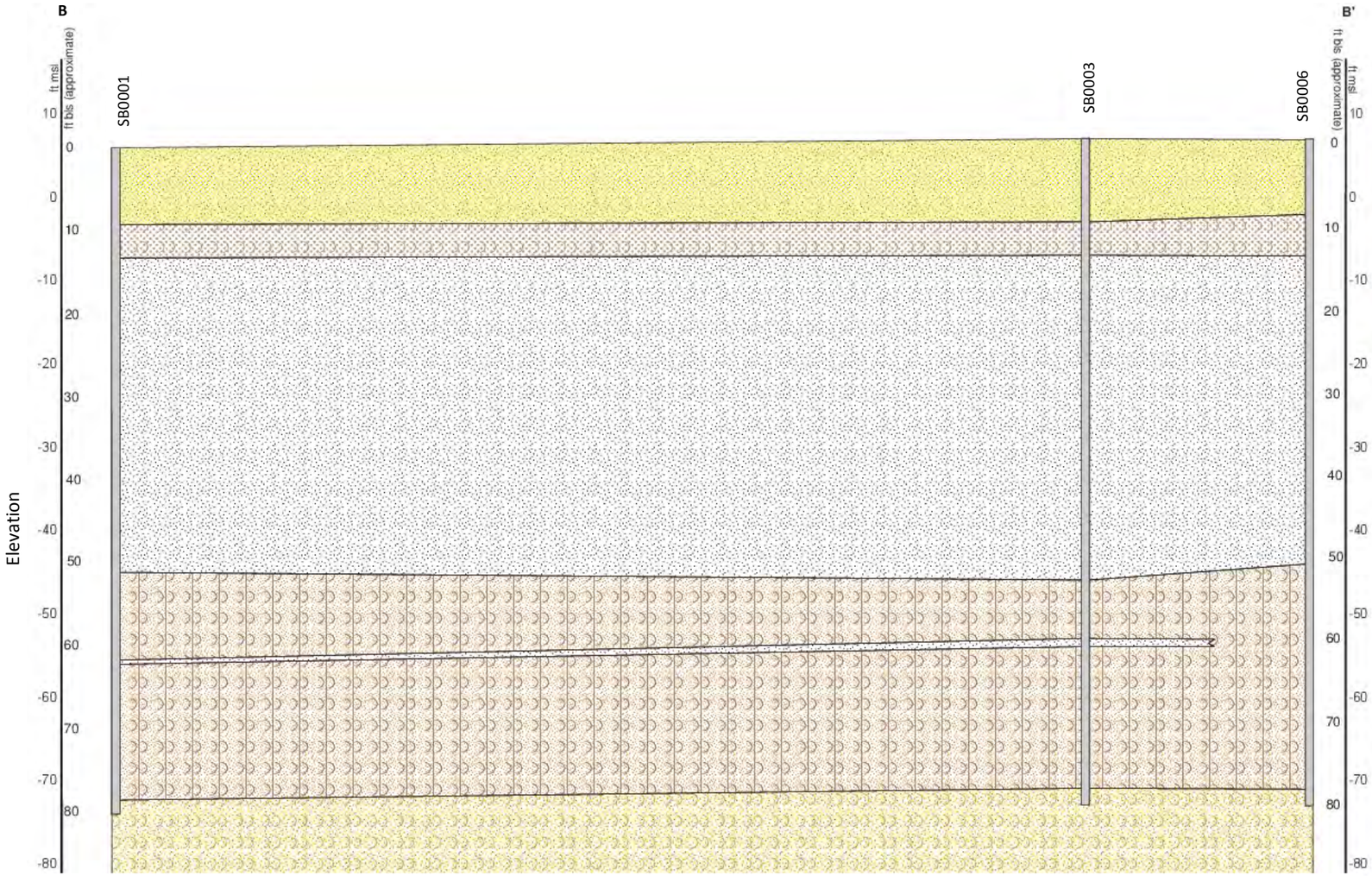
- Soil Boring Location
- DPT Sampling Location
- A-A' Transect
- A-B' Transect
- B-B' Transect
- C-C' Transect
- D-D' Transect

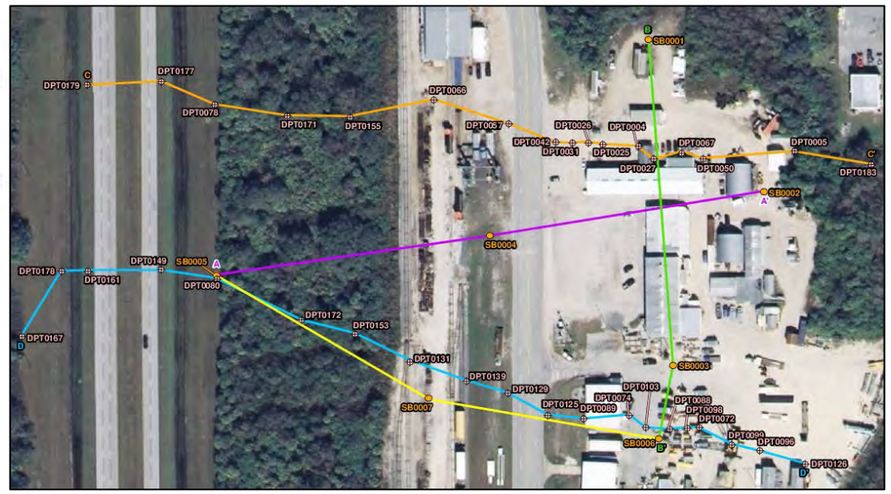
N

120 60 0 120 Feet

Notes: Prefix for all sampling location is "CRHE-"

Figure 2
Lithologic Cross Section A to B'



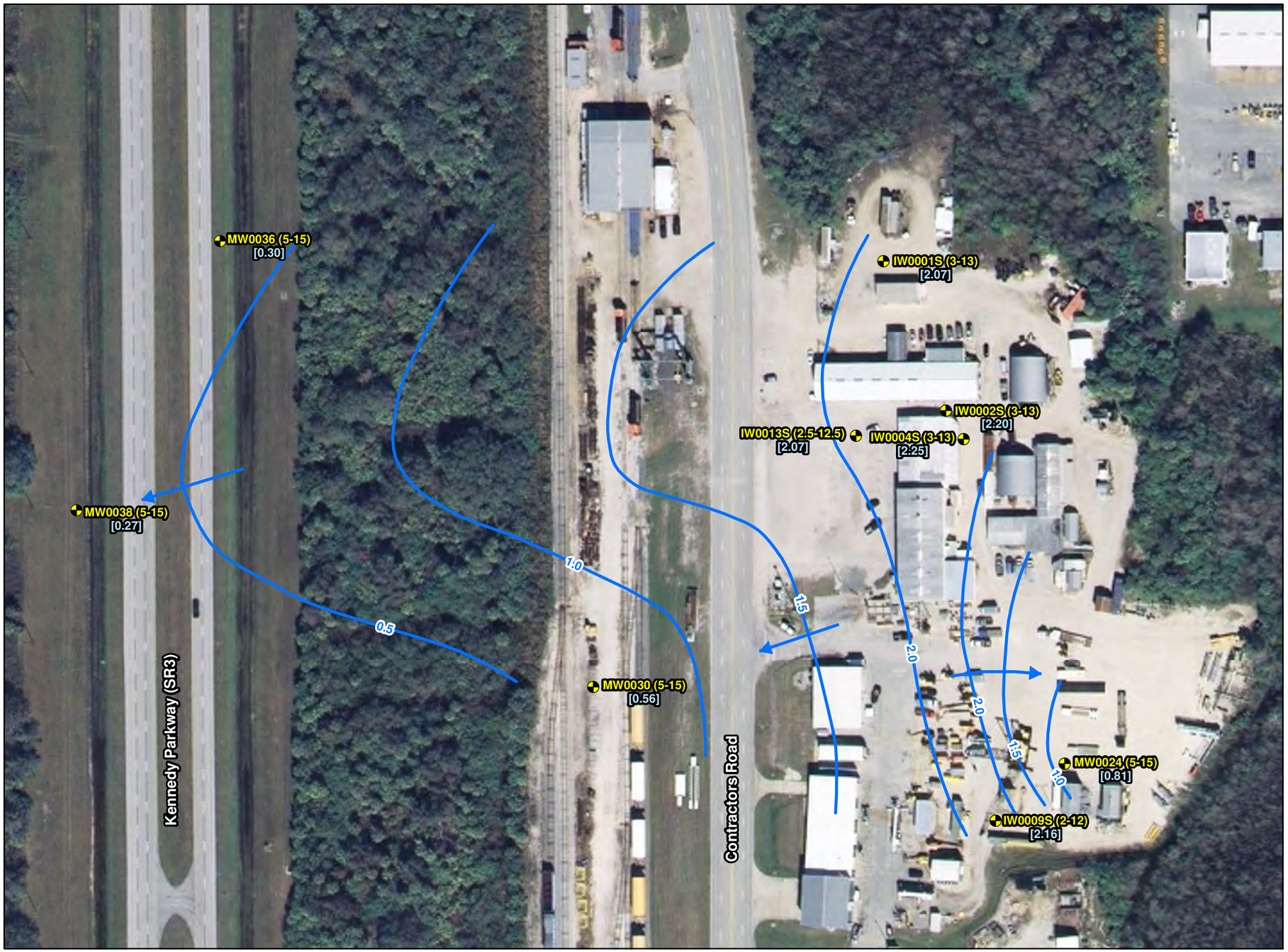


Notes:
1. ft indicate feet
2. msl indicates mean sea level
3. bls indicates below land surface

57 28 0 57 Feet
Horizontal 1" = 57'
Vertical exaggeration is 4.5

Notes: Prefix for all sampling location is "CRHE-"

Figure 3
Lithologic Cross Section B to B'



N

120 60 0 120

Feet

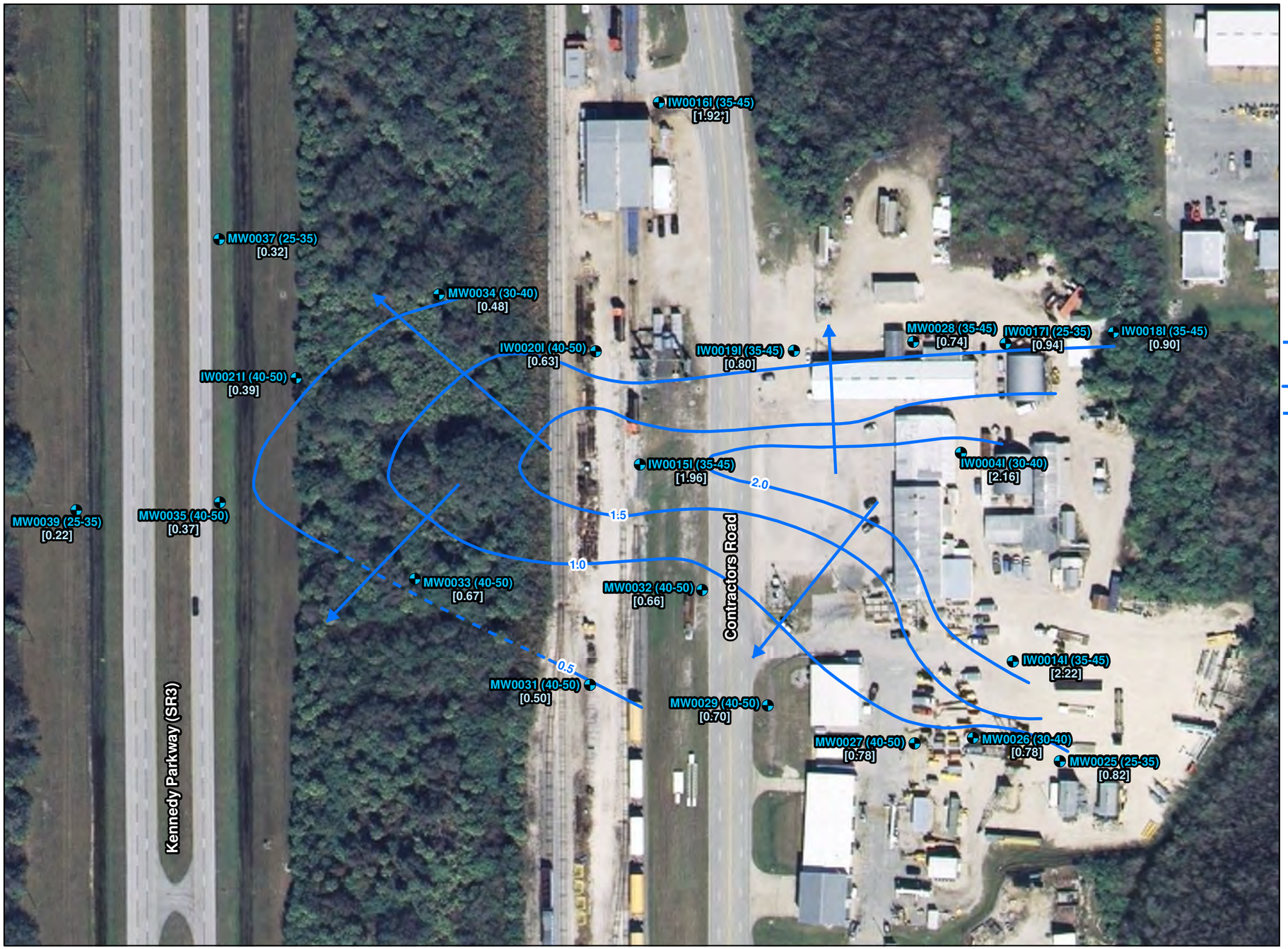
Legend

- Shallow Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction

Notes:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.

Titusville-01\data\0GIS\FR1681\MXDs\MRACH2012\GW_Elev_Shallow.mxd 21 MARCH 2012 JRB

Figure 4
Shallow Groundwater Elevation Contours - March 2012



Legend

- Intermediate Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Inferred Groundwater Elevation Contour
- Groundwater Elevation Contour
- Groundwater Flow Direction

Notes:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.
3. * indicates value is not used to generate contour.

Titusville-01\data\0GIS\FR1681\MXDs\MARCH2012\GW_Elev_Intermediate.mxd 27 MARCH 2012 MAH

Figure 5
Intermediate Groundwater Elevation Contours - March 2012

N

120 60 0 120

Feet

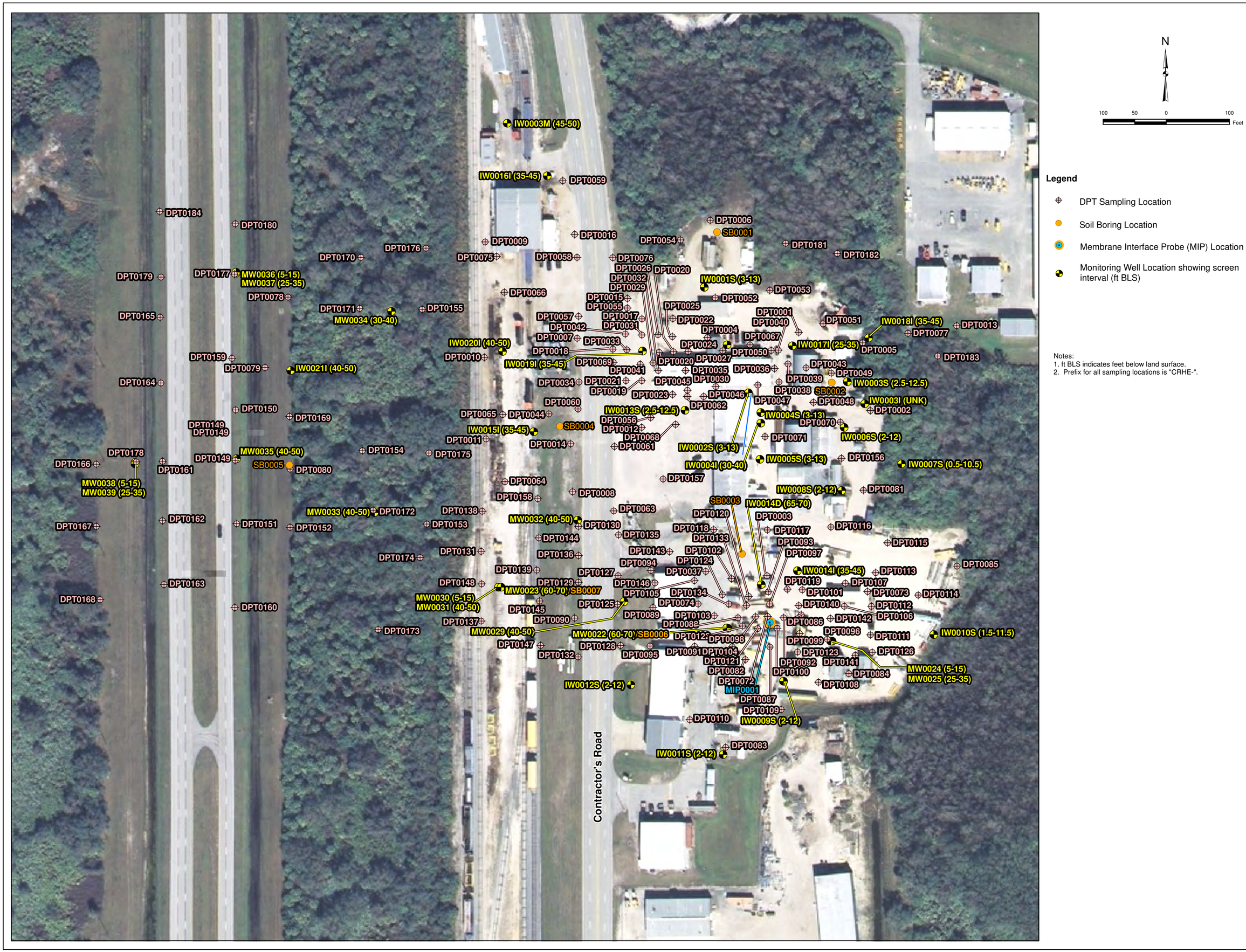
Legend

- Deep Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction

Notes:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.

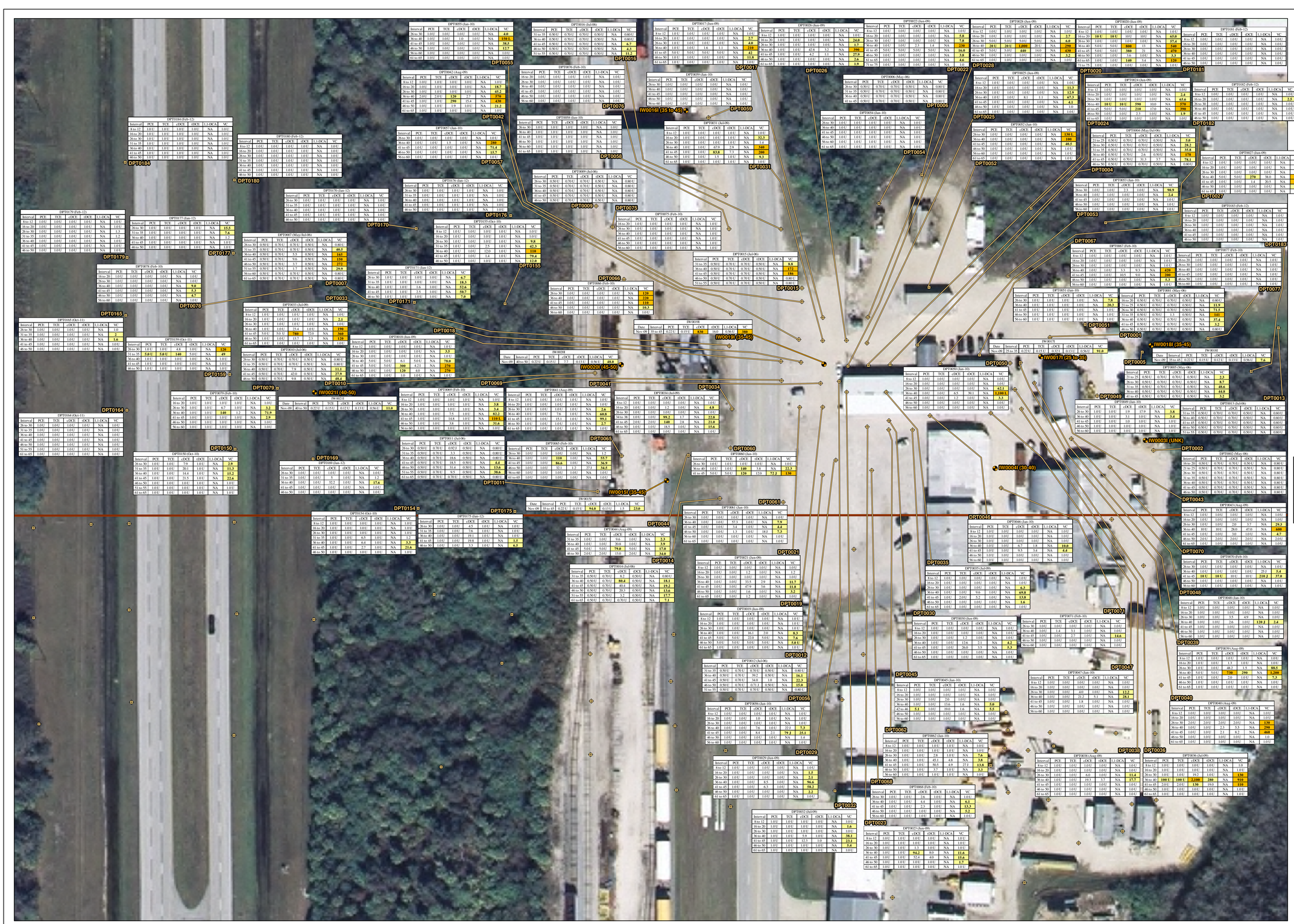
Titusville-01\data\0GIS\FR1681\MXDs\MRACH2012\GW_Elev_Deep.mxd 22 MARCH 2012 JRB

Figure 6
Deep Groundwater Elevation Contours - March 2012



Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\Sampling_locs_FEB2012.mxd 28 MARCH 2012 MAH

Figure 7
CRHE Environmental Sampling Locations



Parameter	Abbreviation	GCTL	NADC
Tetrachloroethene	PCE	3	300
Trichloroethene	TCE	3	300
cis-1,2-Dichloroethene	cDCE	70	700
trans-1,2-Dichloroethene	tDCE	100	1,000
1,1-Dichloroethane	1,1-DCA	70	700
Vinyl Chloride	VC	1	100

Notes:
1. Screen interval is presented in feet below land surface (ft BLS).
2. Results are presented in micrograms per liter (µg/L).
3. I indicates result is between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. U indicates value was not detected above the method detection limit.
6. L indicates value exceeds the calibration range.
7. Yellow shaded, bold text indicates exceedance of Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level (GCTL).
8. Orange shaded, bold text indicates exceedance of FDEP Natural Attenuation Default Concentration (NADC).

Figure 8
CRHE Area Summary Groundwater Sampling Results - Northern Portion of Site

Legend

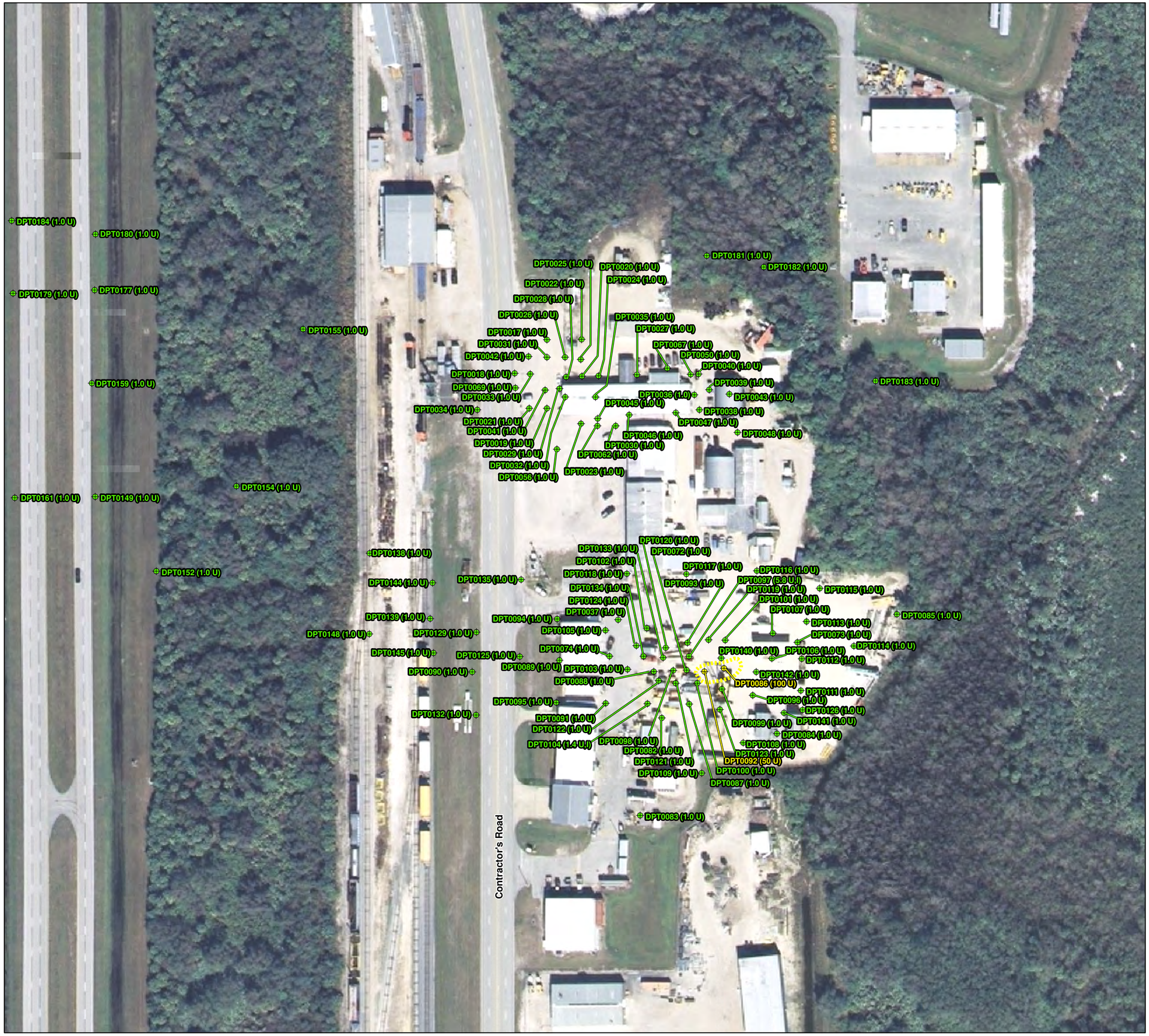
- DPT Sampling Location
- Intermediate Monitoring Well Location showing screen interval (ft BLS)
- North/South Boundary Line (data for locations north of this line can be found on Figure 8).

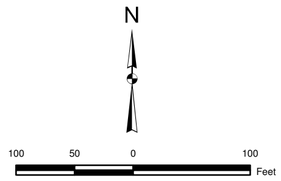
Parameter	Abbreviation	GCTL	NADC
Tetrachloroethene	PCE	3	300
Trichloroethene	TCE	3	300
cis-1,2-Dichloroethene	cDCE	70	700
trans-1,2-Dichloroethene	tDCE	100	1,000
1,1-Dichloroethane	1,1-DCA	70	700
Vinyl Chloride	VC	1	100

Notes:
1. Screen interval is presented in feet below land surface (ft BLS).
2. Results are presented in micrograms per liter (µg/L).
3. Indicates results between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. U indicates value was not detected above the method detection limit.
6. L indicates value exceeds the calibration range.
7. Yellow shaded, bold text indicates exceedance of Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level (GCTL).
8. Orange shaded, bold text indicates exceedance of FDEP Natural Attenuation Default Concentration (NADC).

Figure 9
CRHE Area Summary Groundwater Sampling Results - Southern Portion of Site

Y:\cadfiles\GIS\FIGURES_CRHE\MXDs\FIGS01XFIGS01X_SPT_South_spatial.mxd 19 MAY 2012 JRB





Legend

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indidcates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".
9. Contours that are based solely on non-detects with elevated detection limits are shown with dashed lines and no shading.

Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\TCE_8_to16_ftbls_FEB2012.mxd 24 MAY 2012 MAH

Figure 10
CRHE Area Summary of TCE Results in Groundwater 8 to 16 ft BLS

N

100 50 0 100
Feet

Legend

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10X NADC)

Monitoring Well Location showing (screen interval ft BLS) and [TCE Concentration]

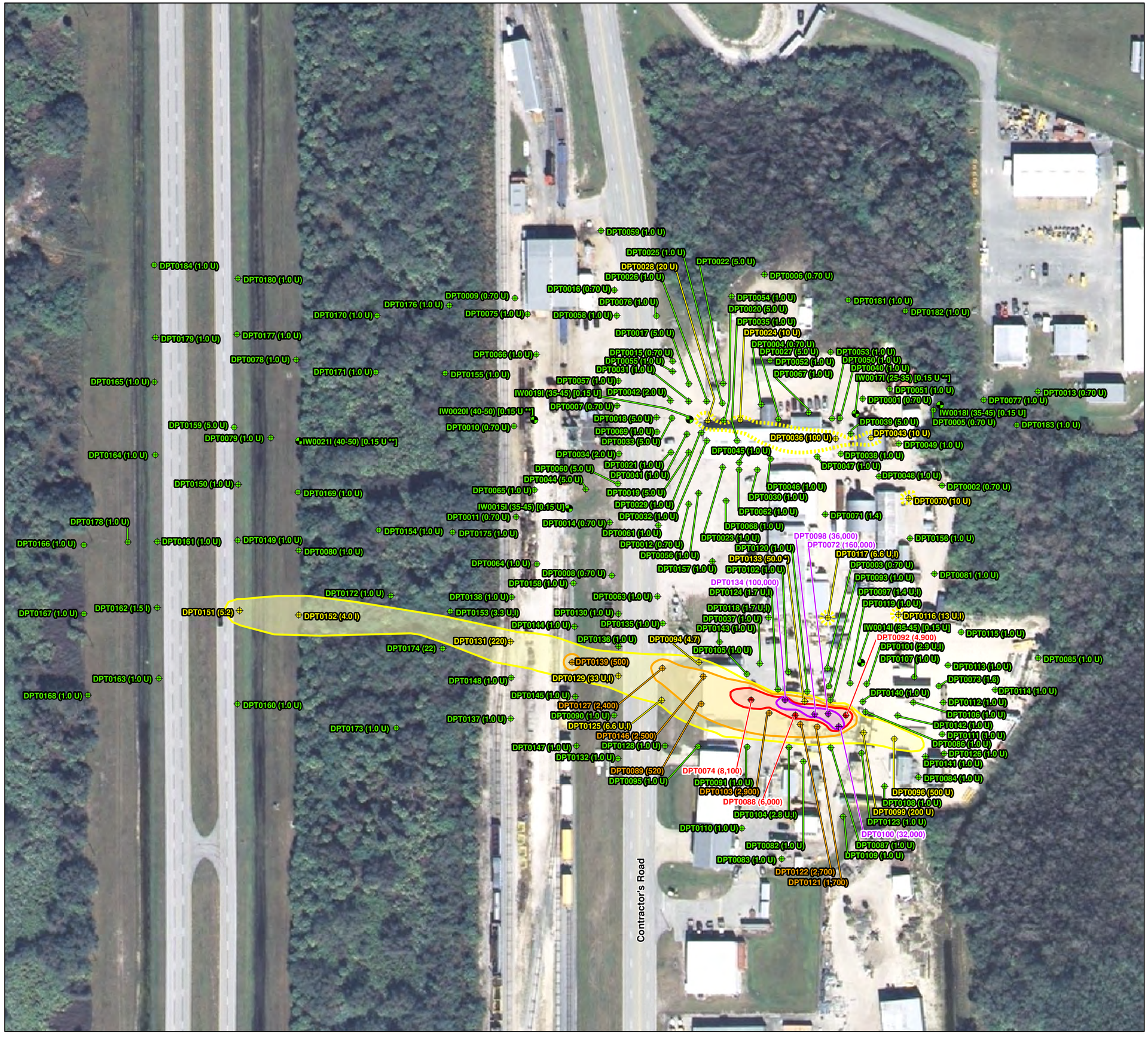
- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)

- 3 µg/L TCE Isopleth
- 300 µg/L TCE Isopleth
- 3,000 µg/L TCE Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indicates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".
9. ** indicates well screens fall within on within more than one mapping interval.
10. Contours that are based solely on non-detects with elevated detection limits are shown with dashed lines and no shading.

Titusville-01:Data:0GIS\FR1681_CRHE\MXDs\FEB2012\TCE_16_to30_ftbls_FEB2012.mxd 05 APRIL 2012 JRB

Figure 11
CRHE Area Summary of TCE Results in Groundwater 16 to 30 ft BLS



Legend

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10X NADC)
- TCE concentration greater than 10,000 µg/L

Monitoring Well Location showing (screen interval ft BLS) and [TCE Concentration]

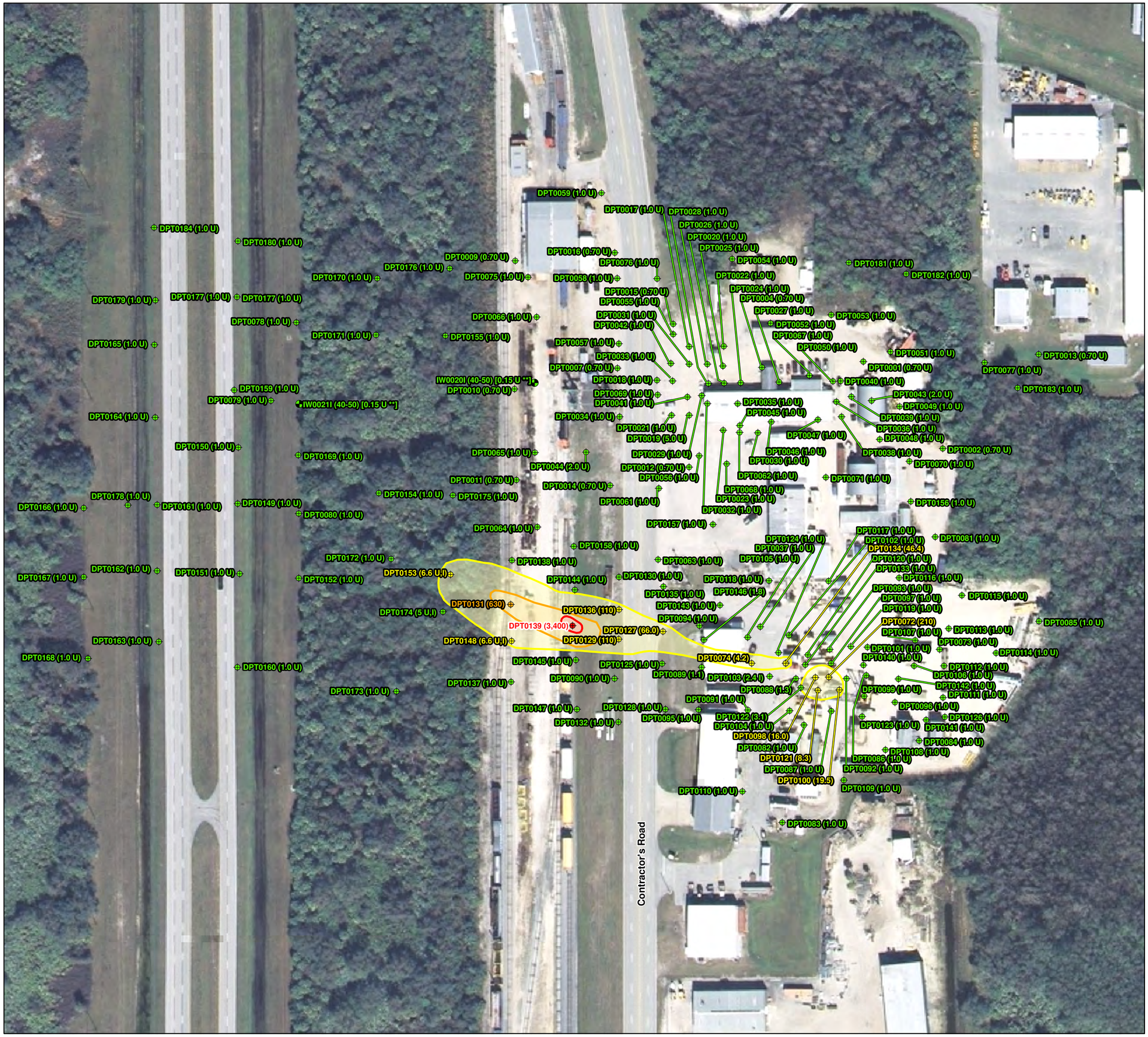
- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)

- 3 µg/L TCE Isopleth
- 300 µg/L TCE Isopleth
- 3,000 µg/L TCE Isopleth
- 10,000 µg/L TCE Isopleth - Approximate 1% TCE Solubility

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. * indicates data not used to generate contours.
7. ** indicates well screens fall within on within more than one mapping interval.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. Only monitoring wells that were sampled in November 2009 are shown on this map.
12. Contours that are based solely on non-detects with elevated detection limits are shown with dashed lines and no shading.

Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\TCE_31_to46_ftbls_FEB2012.mxd 23 MAY 2012 MAH

Figure 12
CRHE Area Summary of TCE Results in Groundwater 31 to 46 ft BLS



N

100 50 0 100

Feet

Legend

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10X NADC)

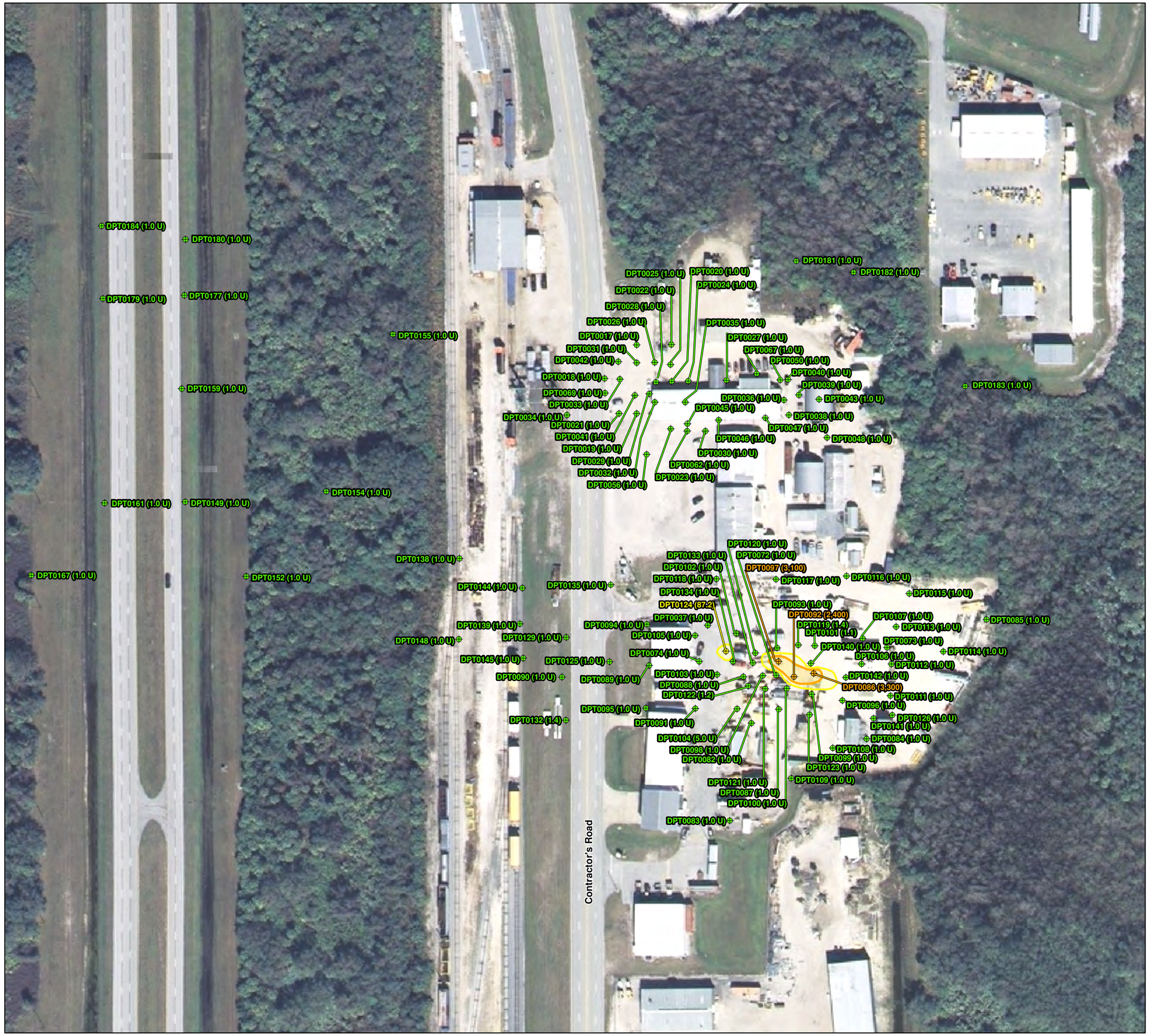
Monitoring Well Location showing (screen interval (ft BLS) and [TCE Concentration])

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth
- 300 µg/L TCE Isopleth
- 3,000 µg/L TCE Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. ** indicates well screens fall within on within more than one mapping interval.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Only monitoring wells that were sampled in November 2009 are shown on this map.

T:\tusville-01\Data\0GIS\FR1681_CRHE\MXDs\FEB2012\TCE_greater_than_46_ftbls_FEB2012.mxd 13 JUNE 2012 JRB

Figure 13
CRHE Area Summary of TCE Results in Groundwater greater than 46 ft BLS



Legend

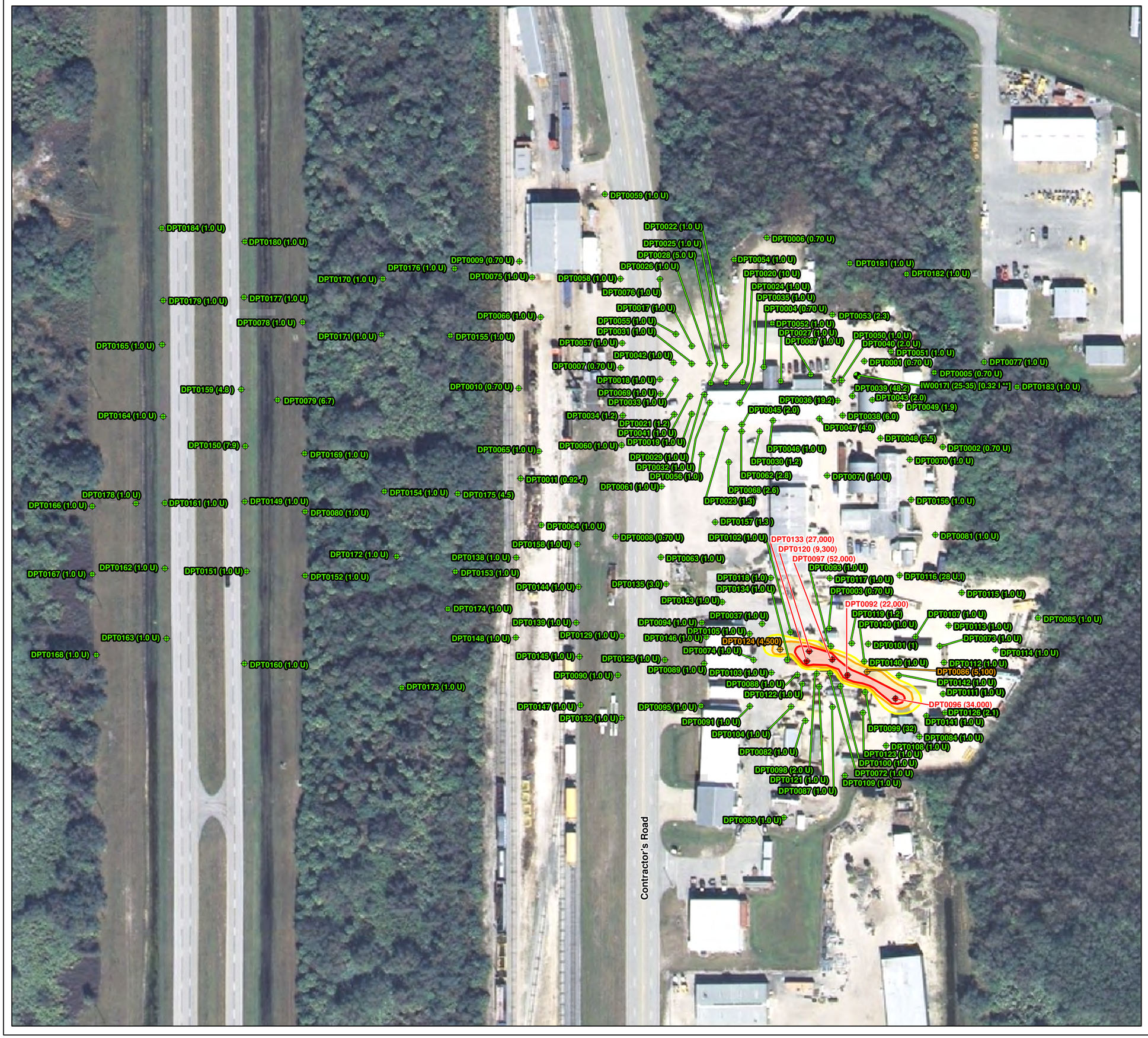
DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth

Notes:
1. Results are presented in micrograms per liter (µg/L).
2. ft BLS indicates feet below land surface.
3. U indicates value was not detected above the method detection limit.
4. cDCE indicates cis-1,2-dichloroethene.
5. GCTL indicates Groundwater Cleanup Target Level.
6. NADC indicates Natural Attenuation Default Concentration.
7. Prefix for all sampling locations is "CRHE-".

Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\cDCE_8_to16_ftbls_FEB2012.mxd 29 FEBRUAR 2012 MLN

Figure 14
CRHE Area Summary of cDCE Results in Groundwater 8 to 16 ft BLS



Legend

DPT Sampling Location showing (highest cDCE concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- cDCE concentration greater than 7,000 µg/L (10X NADC)

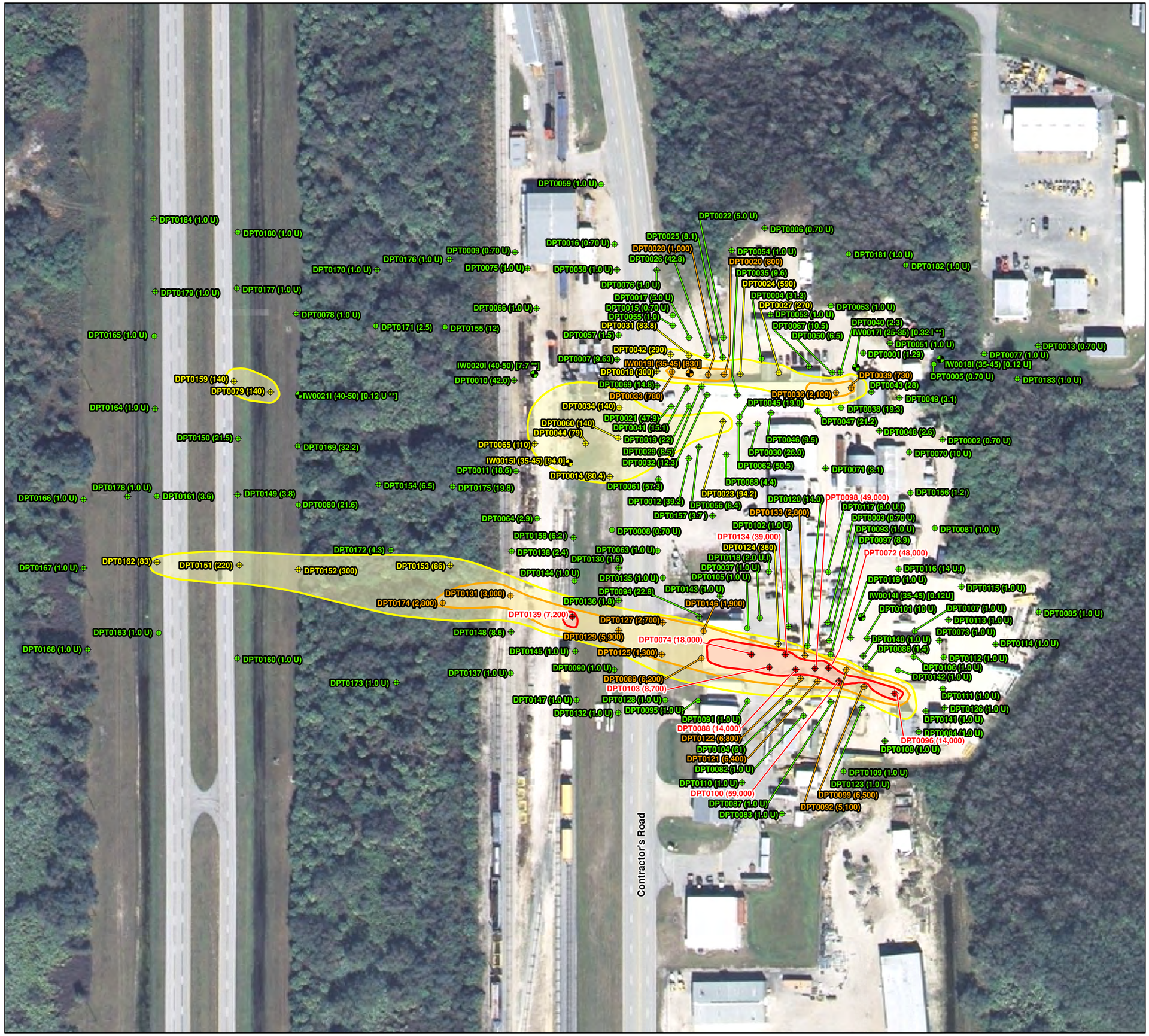
Monitoring Well Location showing (screen interval ft BLS) and [cDCE Concentration]

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- 7,000 µg/L cDCE Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. U indicates value was not detected above the method detection limit.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. cDCE indicates cis-1,2-dichloroethene.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. ** indicates well screens fall within on within more than one mapping interval.

Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\cDCE_16_to30_ftbls_FEB2012.mxd 02 MARCH 2012 MAH

Figure 15
CRHE Area Summary of cDCE Results in Groundwater 16 to 30 ft BLS



N

100 50 0 100

Feet

Legend

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- cDCE concentration greater than 7,000 µg/L (10X NADC)

Monitoring Well Location showing (screen interval ft BLS) and [cDCE Concentration]

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- 7,000 µg/L cDCE Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. ** indicates well screens fall within on within more than one mapping interval.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Only monitoring wells that were sampled in November 2009 are shown on this map.

Titusville-01\Data\0GIS\FR1681_CRHE\MXDs\FEB2012\cDCE_31_to46_ftbls_FEB2012.mxd 23 MAY 2012 MAH

Figure 16
CRHE Area Summary of cDCE Results in Groundwater 31 to 46 ft BLS

N

100 50 0 100
Feet

Legend

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

Monitoring Well Location showing (screen interval ft BLS) and [cDCE Concentration]

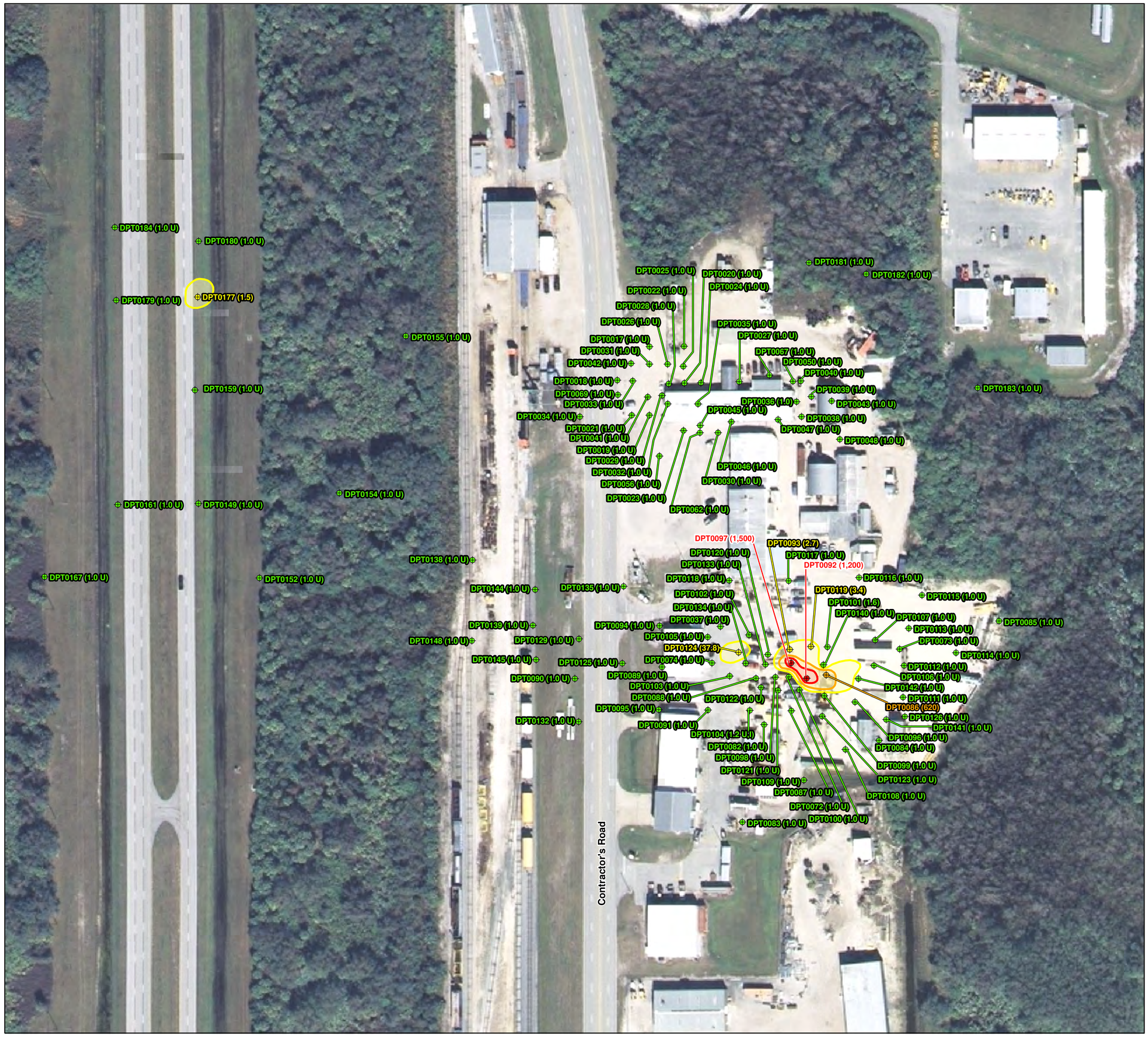
- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. U indicates value was not detected above the method detection limit.
7. ** indicates well screens fall within on within more than one mapping interval.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. Only monitoring wells that were sampled in November 2009 are shown on this map.

Contractor's Road

Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\cDCE_greater_than_46_ftbls_FEB2012.mxd 02 MARCH 2012 MAH

Figure 17
CRHE Area Summary of cDCE Results in Groundwater greater than 46 ft BLS



Legend

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (10X NADC)
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- 1,000 µg/L VC Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indicates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".

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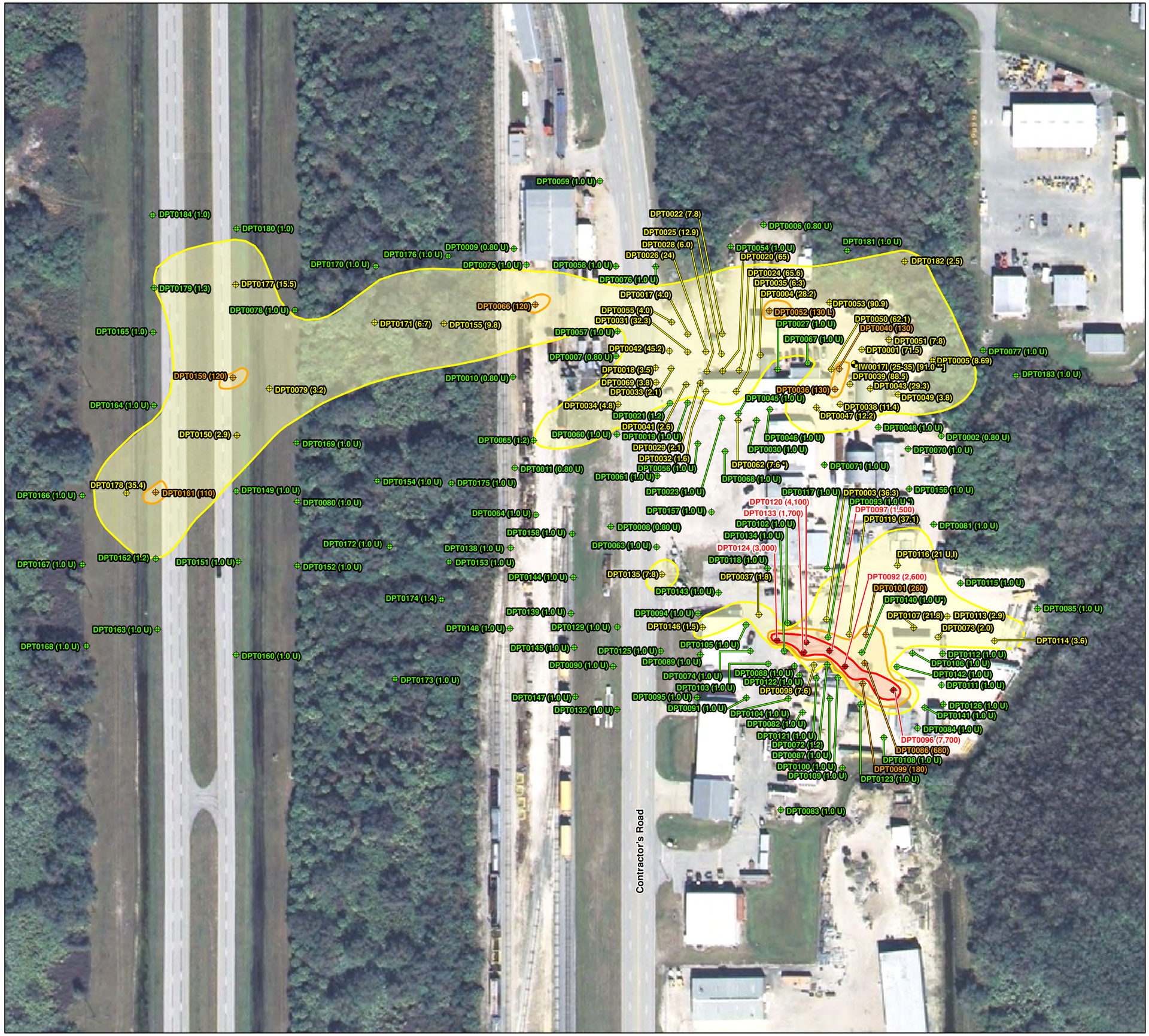
Figure 18
CRHE Area Summary of VC Results in Groundwater 8 to 16 ft BLS



N

100 50 0 100

Feet

Legend

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (10X NADC)

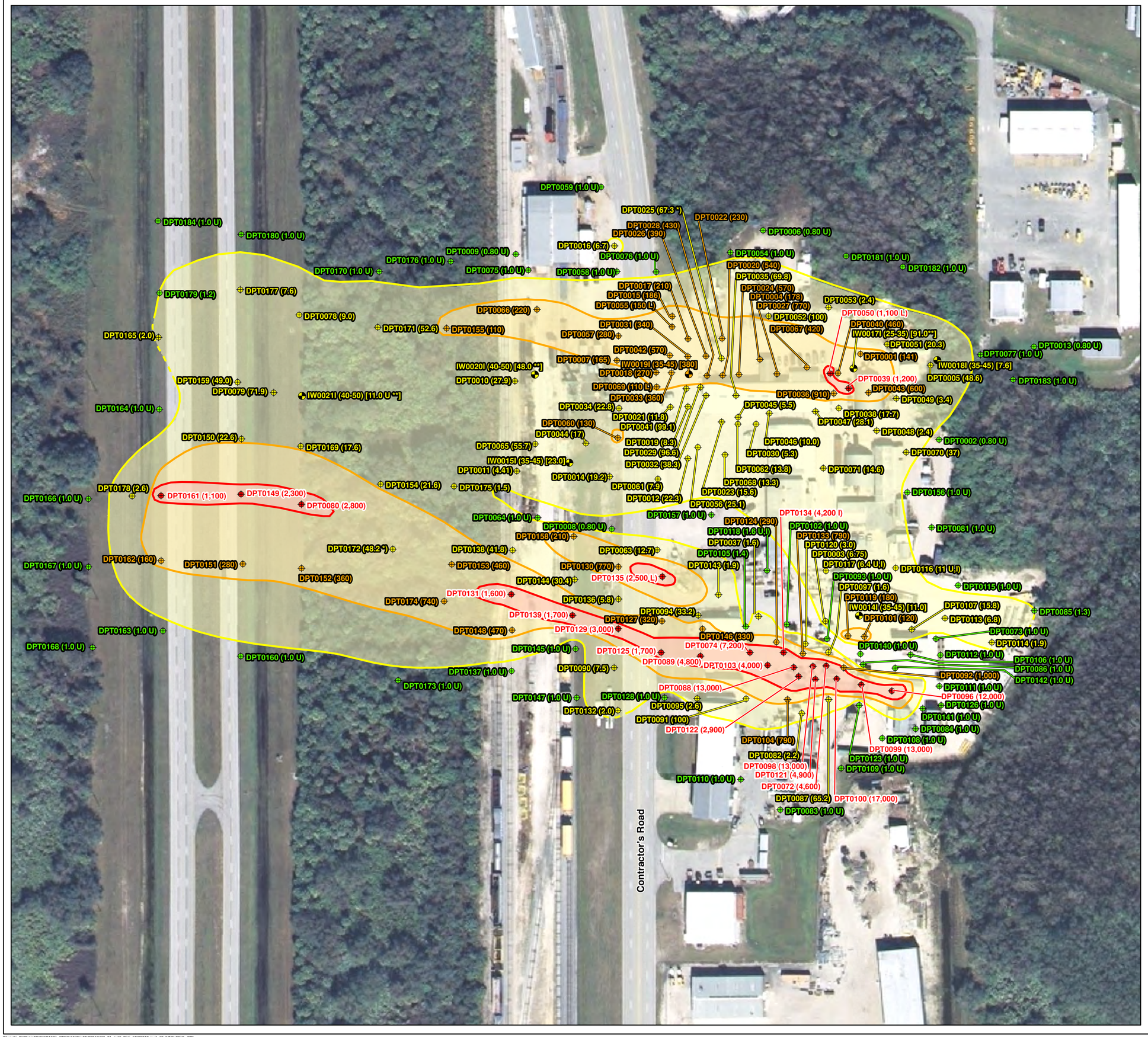
Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- Inferred 1 µg/L VC Isopleth
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- 1,000 µg/L VC Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. L indicates value exceeds calibration range.
6. U indicates value was not detected above the method detection limit.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. * indicates data not used to generate contours.
12. ** indicates well screens fall within on within more than one mapping interval.

Titusville-01\Data\GIS\FR1681_CRHE MXDs\FEB2012\VC_16_to30_ftbls_FEB2012.mxd 18 JUNE 2012 JRB

Figure 19
CRHE Area Summary of VC Results in Groundwater 16 to 30 ft BLS



N

100 50 0 100

Feet

Legend

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (10X NADC)

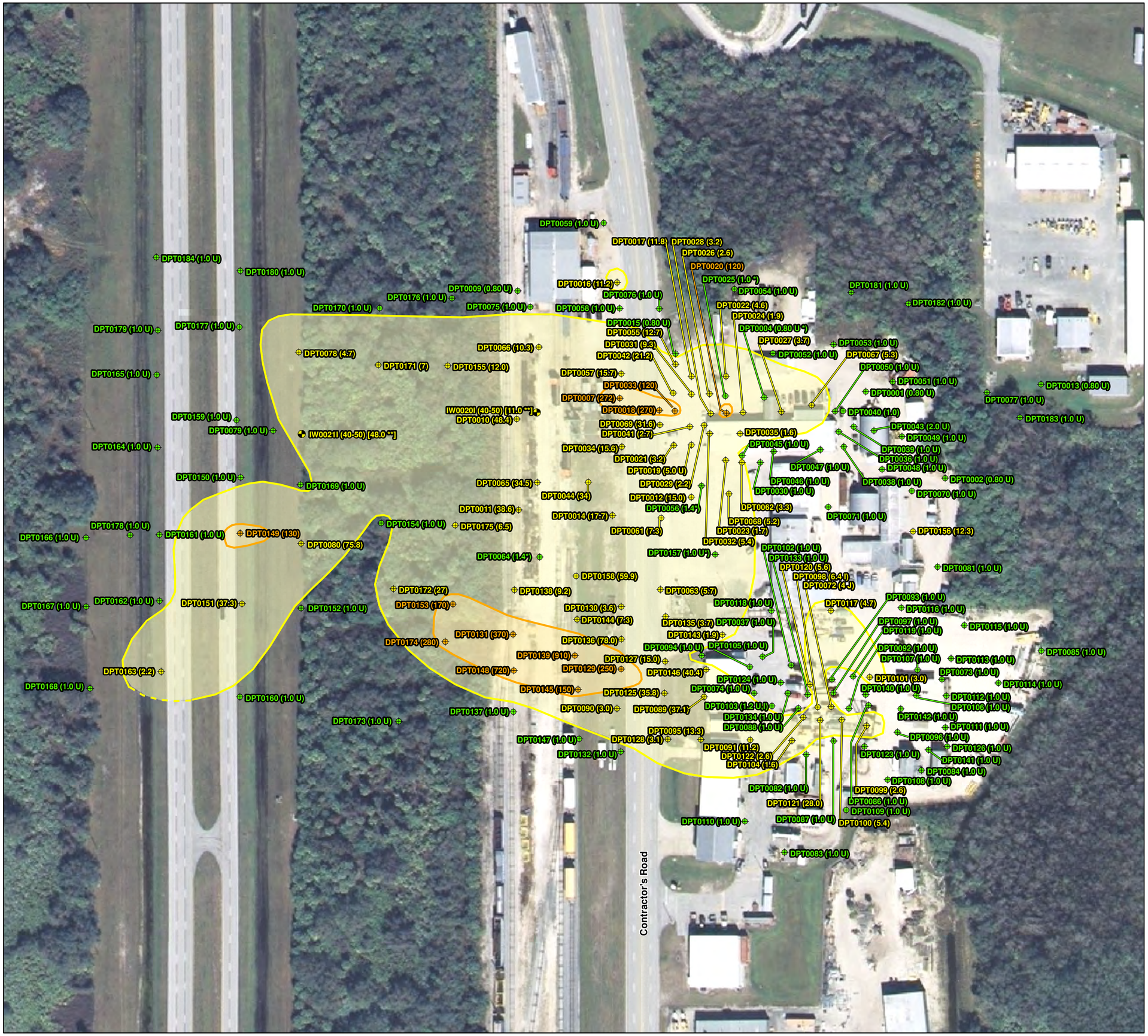
Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

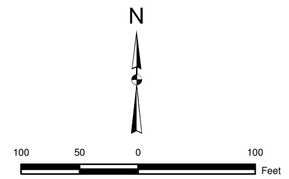
- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- 1 µg/L VC Isopleth
- Inferred 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- 1,000 µg/L VC Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. L indicates value exceeds calibration range.
6. U indicates value was not detected above the method detection limit.
7. * indicates data not used to generate contours.
8. ** indicates well screens fall within on within more than one mapping interval.
9. GCTL indicates Groundwater Cleanup Target Level.
10. NADC indicates Natural Attenuation Default Concentration.
11. Prefix for all sampling locations is "CRHE-".
12. Only monitoring wells that were sampled in November 2009 are shown on this map.

Titusville-01\Data\GIS\FR1681_CRHE\MXDs\FEB2012\VC_31_to46_ftbls_FEB2012.mxd 13 JUNE 2012 JRB

Figure 20
CRHE Area Summary of VC Results in Groundwater 31 to 46 ft BLS





Legend

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)

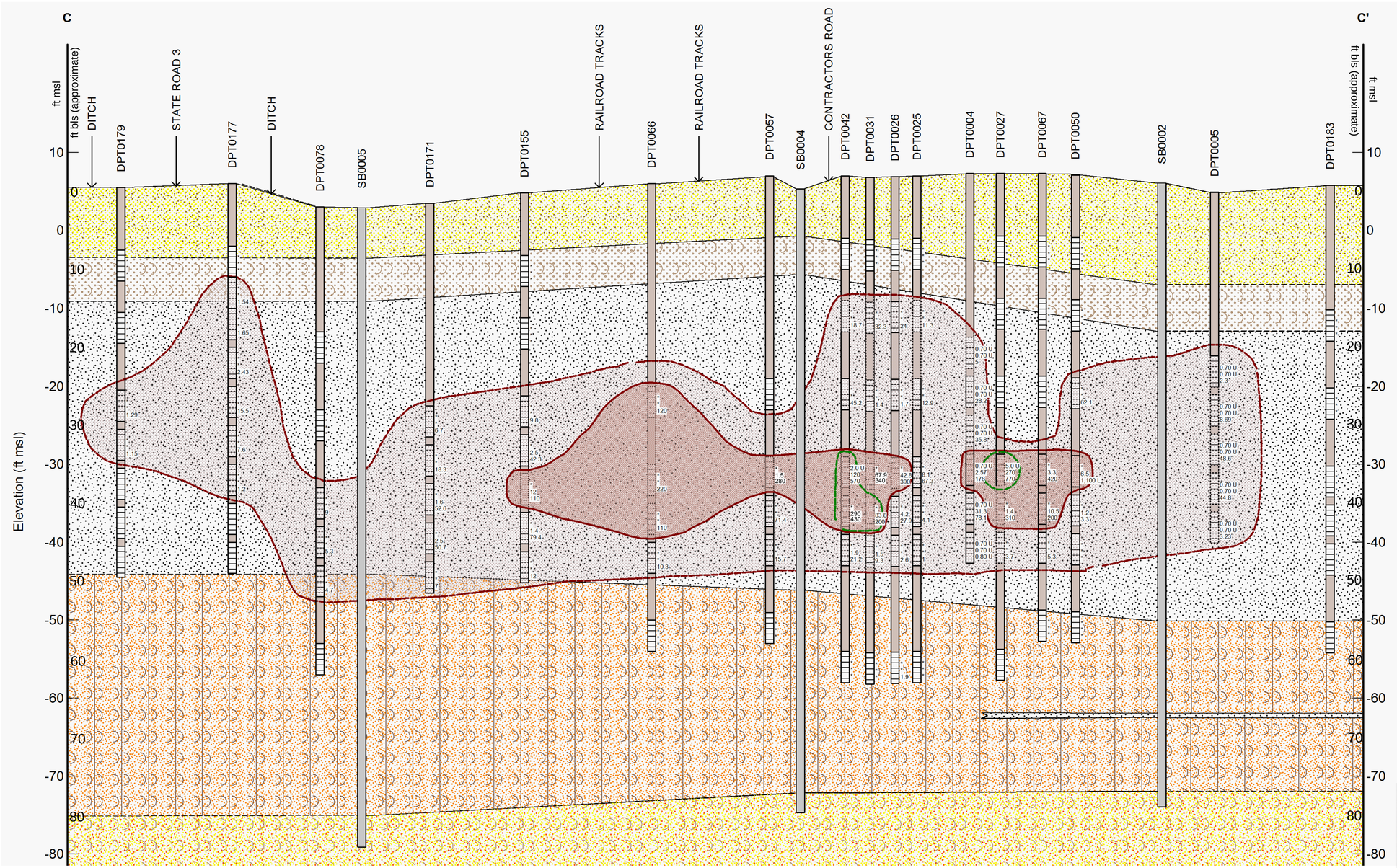
Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- Inferred 1 µg/L VC Isopleth
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. U indicates value was not detected above the method detection limit.
7. * indicates data not used to generate contours.
8. ** indicates well screens fall within on within more than one mapping interval.
9. GCTL indicates Groundwater Cleanup Target Level.
10. NADC indicates Natural Attenuation Default Concentration.
11. Prefix for all sampling locations is "CRHE-".
12. Only monitoring wells that were sampled in November 2009 are shown on this map.

Titusville-01\Data\0GIS\FR1681_CRHE\MXDs\FEB2012\VC_greater_than_46_ftbls_FEB2012.mxd 18 JUNE 2012 JRB

Figure 21
CRHE Area Summary of VC Results in Groundwater greater than 46 ft BLS



113 57 0 113 Feet

Horizontal 1" = 113'
Vertical exaggeration is 8

Legend

- Lithology Boring
- Direct Push Technology (DPT) Location
- DPT Groundwater Sample Location

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with shell 30 – 50%
- Silty SAND (SM) with varying amounts of clay and up to 10% shells
- Fine silty SAND (SM) with 20 – 30% shell fragments
- Inferred lithology

Notes:

1. Results presented in micrograms per liter (µg/L).
2. * indicates result value is less than or equal to 1.0 U.
3. ft indicates feet.
4. msl indicates mean sea level.
5. bls indicates below land surface.
6. GCTL indicates Florida Department of Environmental Protection (FDEP) Cleanup Target Level.
7. I indicates reported value is between the method detection limit (MDL) and the practical quantitation limit.
8. L indicates value exceeds calibration range.
9. NADC indicates FDEP Natural Attenuation Default Criteria.
10. U indicates not detected above MDL.
11. Soil boring locations were projected onto the transect.
12. All location IDs are abbreviated, full location IDs include “CRHE-” prefix.

Trichloroethene (TCE) (µg/L)
cis-1,2-dichloroethene (cDCE) (µg/L)
Vinyl Chloride (VC) (µg/L)

1 µg/L VC (GCTL)
100 µg/L VC (NADC)
70 µg/L cDCE (GCTL)

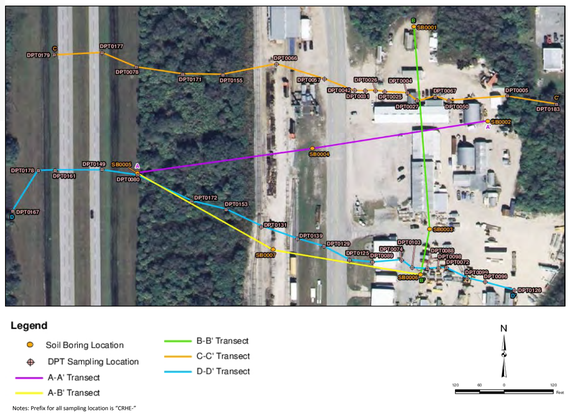
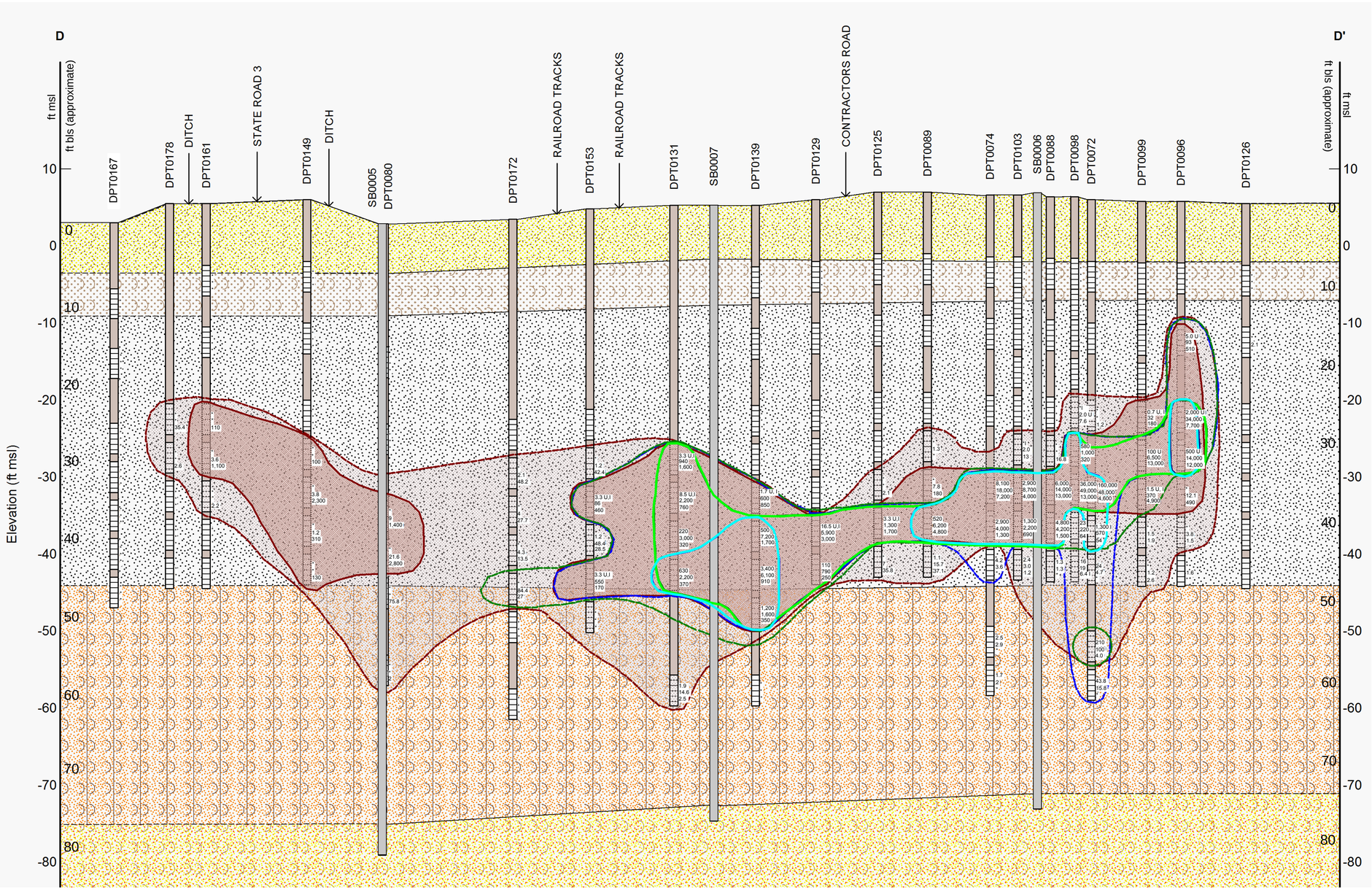


Figure 22
Lithologic Cross Section C to C' and CVOC Isocontours



122 61 0 122 Feet

Horizontal 1" = 122'
Vertical exaggeration is 9

Legend

- Lithology Boring
- Direct Push Technology (DPT) Location
- DPT Groundwater Sample Location

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with shell 30 – 50%
- Silty SAND (SM) with varying amounts of clay and up to 10% shells
- Fine silty SAND (SM) with 20 – 30% shell fragments
- Inferred lithology

Notes:

1. Results presented in micrograms per liter (µg/L).
2. * indicates result value is less than or equal to 1.0 U.
3. ft indicates feet.
4. msl indicates mean sea level.
5. bls indicates below land surface.
6. GCTL indicates Florida Department of Environmental Protection (FDEP) Cleanup Target Level.
7. I indicates reported value is between the method detection limit (MDL) and the practical quantitation limit.
8. L indicates value exceeds calibration range.
9. NADC indicates FDEP Natural Attenuation Default Criteria.
10. U indicates not detected above MDL.
11. Soil boring locations were projected onto the transect.
12. All location IDs are abbreviated, full location IDs include "CRHE-" prefix.

Trichloroethene (TCE) (µg/L)
cis-1,2-dichloroethene (cDCE) (µg/L)
Vinyl Chloride (VC) (µg/L)

- 1 µg/L VC (GCTL)
- 100 µg/L VC (NADC)
- 70 µg/L cDCE (GCTL)
- 700 µg/L cDCE (NADC)
- 3 µg/L TCE (GCTL)
- 300 µg/L TCE (NADC)

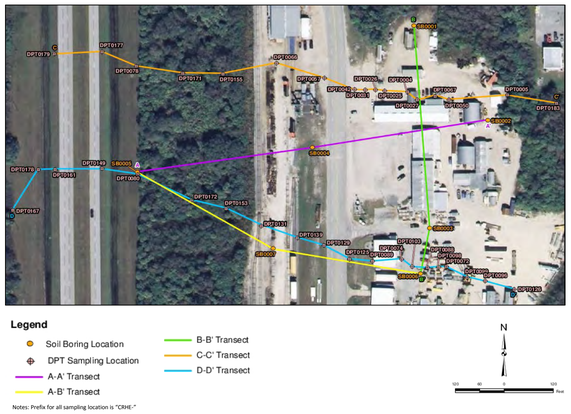
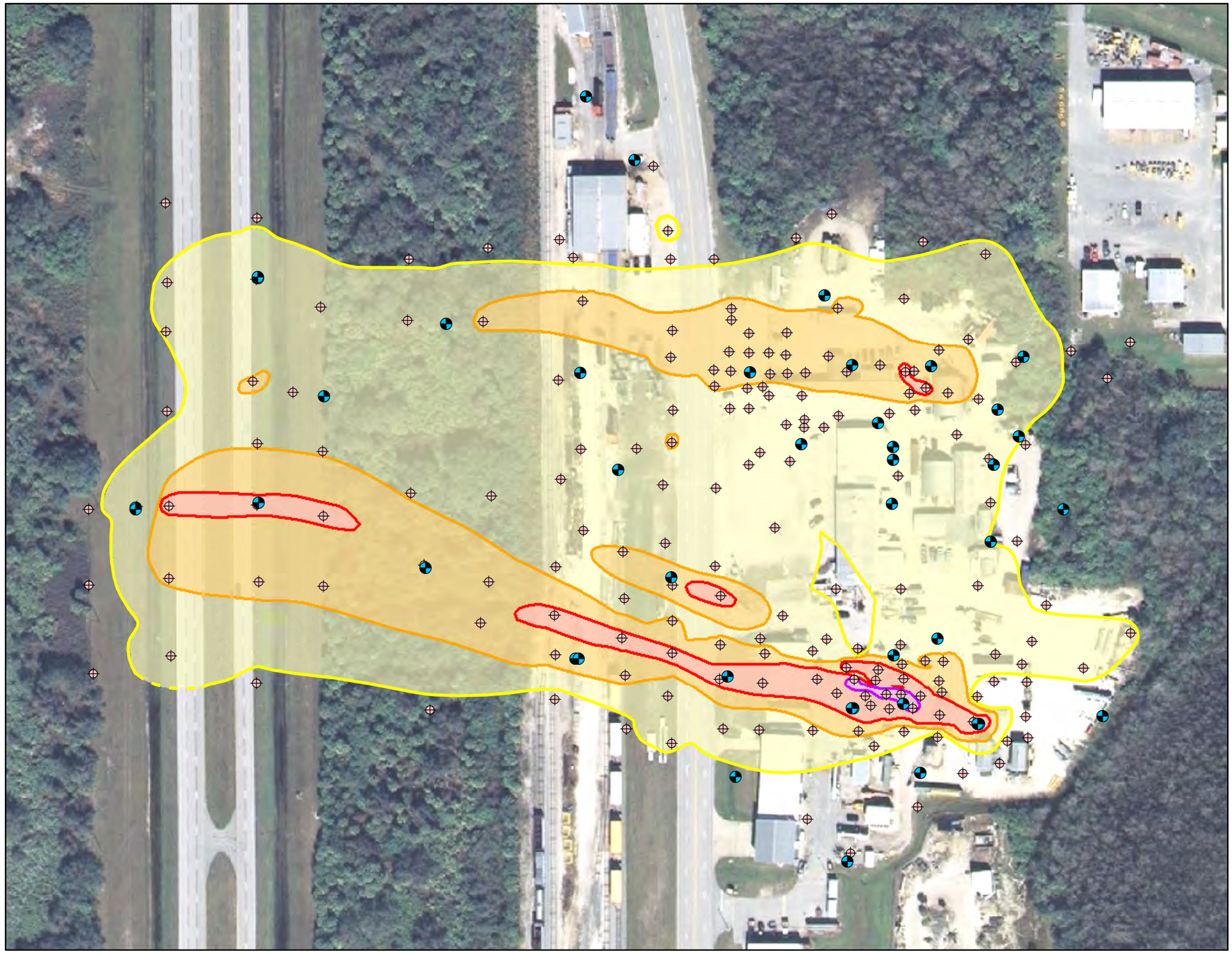


Figure 23
Lithologic Cross Section D to D' and CVOC Isocontours



N

140 70 0 140

Feet

Legend

- Monitoring Well Location
- DPT Sampling Location
- Inferred Low Concentration Plume (Concentrations Greater than GCTL)
- Low Concentration Plume (Concentrations Greater than GCTL)
- High Concentration Plume (Concentrations Greater than NADC)
- Hot Spot (Concentrations Greater than 10X NADC)
- Approximate 1% TCE Solubility

Plume	Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	15.87
High Concentration Plume (Concentrations Greater than NADC)	4.71
Hot Spot (Concentrations Greater than 10X NADC)	0.75
Approximate 1% TCE Solubility (TCE Concentrations Greater than 10,000 µg/L)	0.03

Notes:
1. GCTL indicates Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level.
2. NADC indicates FDEP Natural Attenuation Default Concentration.

Titusville-01\Data\0GIS\FR1681_CRHE\MXDs\APRIL2012\Greater_GCTL_NADC_10XNADC_APR2012.mxd 18 MAY 2012 JRB

Figure 24
Overall Extent of Groundwater Isopleths at CRHE
8 to 50 ft, below land surface

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MEMORANDUM

Date:	15 June 2012
To:	Anne Chrest
Copies to:	NASA Remediation Team
From:	Jill Johnson, P.G. and Jim Langenbach, P.E., BCEE
Subject:	Contractor's Road Heavy Equipment Area (CHRE) (SWMU 082) Step 1A and Step 1B Engineering Evaluation – Response to Comments

Comments on the Step 1A and Step 1B Engineering Evaluation were received and are addressed below. The comment is listed first and Geosyntec's response is listed in italics below the comment.

Arcadis Comments:

The Step 1 Engineering Evaluation package for Contractors Road Heavy Equipment Area (CHRE) meets the requirements specified in the KSC Remediation Team Engineering Evaluation Process document. Based on our review of the ADP, sufficient data are available to advance the CRHE facility in the engineering evaluation process. However, closer spacing of borings may be considered to reduce uncertainties in the following areas:

- In the Source Zone, spacing between borings are approximately 35 to 50 feet such as between DPT0134 and DPT0098. Also, a MIP boring was advanced adjacent to DPT072 and there was good correlation between MIP response and the DPT groundwater data; however, no additional MIPs were conducted in the Source Zone. The typical application of MIP is to assess Source Zones. Additional DPT or MIP borings to reduce the spacing could provide further data on the potential presence of NAPL and its distribution.

  Response: Comment on spacing noted. However, the spacing between the DPT locations identified above is the largest spacing in this area and several of the locations in this area are as close as 13 to 15 ft apart. Additional sampling locations have been proposed in this area to meet spacing guidelines. Originally, two days of MIP logging was planned; however, during advancement of the second location, the equipment malfunctioned. At this site, the MIP was intended to identify likely distribution of mass in the source zone to confirm that we sampled the appropriate depth intervals. It was

decided that the data obtained from the MIP before it malfunctioned was adequate to meet this objective and we proceeded with DPT sampling, which provided a robust data set.

- Adjacent to the railroad line near DPT0139, the closest borings to the west and east are approximately 100 feet and 65 feet, respectively. Does the conceptual site model assume that this contamination is from the Source Zone or was there a separate release that may have occurred adjacent the rail line?

  Response: The current CSM for the site assumes that these impacts are remnants from the identified source zone. It seems unlikely that a separate release would result in a dissolved plume with geometry that so closely mimics that of the centerline of the main plume emanating from the Source Zone. Additionally, there is likely increased drainage around the railroad tracks, wooded areas, and from paved surfaces that could potentially cause the plume to appear divided in this area. However, the DPT spacing in this area is about 50 ft and since the TCE concentration is just over 10X NADC, additional DPT locations are proposed in this area on a 25 ft spacing to confirm the data set.

  Along this same line of thought, we propose to advance an additional DPT location between DPT136 and DPT129 since there is potential that this very narrow TCE plume (TCE on >46 ft map) is passing between these two locations and then showing up at DPT139. This will also help to validate the CSM that the dissolved TCE, cDCE, and VC concentrations observed downgradient are associated with the upgradient release, not a separate source at this location.

The following are ARCADIS' observations based on our review of the ADP package:

1. TCE plumes are conservatively interpreted based on elevated laboratory detection limits at locations such as DPT0116 and DPT0020. These isolated TCE plumes fall within the footprint of the composite plume and do not affect proposed remediation but consideration should be given to collecting confirmation monitoring well or DPT samples to simplify the conceptual site model (CSM) and refine the affected distribution of the chemicals of concern.

   Response: Comment noted. In one of the areas indicated above, the elevated detection limit for TCE (16 to 30 ft BLS) in DPT0020 is surrounded by DPT locations at less than 25 ft spacing with results of 1 U. Given the relatively low concentrations in this area (primarily of vinyl chloride), as noted above, this will not affect the proposed remedial strategy.

2. The contouring should be re-evaluated based upon the November 17, 2011 FDEP Rounding Memorandum. Several examples where the contour lines could be reduced are on Slide 24 at DPT0122 where TCE is 3.1 µg/l and Slide 30 where vinyl chloride concentrations could be rounded downward at DPT0162, DPT0174, and DPT0065.

   Response: So noted. On Slide 24, the contour line is touching the symbol for DPT0122 so the isopleth was not revised but the symbol color was changed to green. Also, the contours indicated on Slide 30 have been corrected in the revised ADP, as well as similar edits to the map on Slides 31 and 32.

3. EVS for TCE and DPT072 – A review of TCE concentrations in DPT072 show TCE at a concentration of 43.8 µg/L at a depth of 61 to 65 ft BLS. Is TCE delineated to GCTLs at depth in this area? The EVS graphic also shows the vertical depth not confirmed. Should this vertical delineation be confirmed with additional DPT or a vertical depth monitoring well? Please clarify the rationale for not installing a monitoring well in the Source Zone for comparison with direct push data such as DPT0072?

   Response: We believe that the TCE concentrations observed at the 56 to 60 and 61 to 65 ft samples at this location are likely associated with dragdown from the 160,000 µg/L observed at 36 to 40 ft BLS at this location. After sampling at this location, we had our DPT subcontractor replace their decontamination water more frequently to mitigate potential dragdown issues. We propose to collect confirmation samples at 46 to 50 ft, 56 to 60 ft, and 61 to 65 ft BLS adjacent to DPT072 to confirm vertical delineation in this area (though it is certainly possible that these locations will contain low-level TCE concentrations). Also, a vertical delineation well will be considered in this area as part of a performance network when/if active remediation proceeds in this area of the site.

4. Slide 31 – On this slide, vinyl chloride concentrations at the 31 to 46 ft BLS interval are presented and indicate a vinyl chloride Hot Spot that extends from the TCE Source Zone toward DPT0131. Another Hot Spot begins approximately 170 feet hydraulically down gradient at DPT0080. How does this separate Hot Spot fit into the conceptual site model; is this further down gradient Hot Spot associated with a separate release near the rail line?

   Response: The current CSM assumes that the down gradient Hot Spot is associated with the main Source Zone, not a separate release. It seems unlikely that a separate release would result in a dissolved plume with geometry that so closely mimics that of the centerline of the main plume emanating from the Source Zone, as discussed previously. There was limited access for DPT sampling in this area; however, if we could conduct additional sampling in this area, it is likely that the plumes would connect. Additional

sampling has been proposed in this area to refine the dataset for completion if/when this typically saturated area is accessible.

5. EVS for VC and Figure 9 – There are multiple locations where VC concentrations are well above GCTLs in the deepest DPT locations; these include DPT0174, DPT0148, DPT0149, DPT0158, DPT0129, and several others with lower concentrations but still above GCTLs. Should deeper DPT intervals be investigated or vertical delineation confirmation with monitoring wells be completed at these locations?

   Response: While it is true that VC concentrations are above GCTLs in the indicated locations (concentrations range from 59.9 to 720 µg/L), these DPT locations were terminated at 50 ft BLS, which is towards the base of the identified impacts (just above the identified semi-confining unit). DPT borings were advanced across the site for vertical delineation purposes at regular lateral intervals to 65 ft BLS and clean bottom samples were obtained at 78% of completed sample locations. The majority of the remaining samples only slightly exceeded the GCTL and the other locations (as listed above and another comment below) were terminated at approximately 50 ft BLS because there are nearby samples that were advanced to 60 to 65 ft BLS for vertical delineation purposes. It should also be noted that only one of these locations has TCE above GCTL in the deepest sample (DPT0129). At this location, TCE is vertically delineated at DPT0139, 65 ft away.

   From a holistic site perspective, the overall site data indicates that the vertical delineation completed at the site achieves the intended purpose based upon: (i) DPT sampling results; (ii) EVS model iso-solid interpretation; and (iii) site lithologic characteristic. However, additional vertical delineation samples have been proposed, primarily in the Source Zone area, at locations where VC concentrations in the deepest sample are above the GCTL.

6. The mass estimates were presented in Slides 37 and 38. Slide 37 indicates that the mass was only estimated for the plume area >10x NADCs. It would be beneficial to have mass estimates for the Source Zone, Hot Spots, High Concentration Plume, and Low Concentration Plume for future use in the Step 1b and Step 2 engineering evaluations.

   In addition on Slide 37, the table indicates calculation of mass greater than 10x NADCs. We believe this should say mass less than (< 10xNADC)?

   Response: Slide 37 has been updated to include mass estimates for the Source Zone, Hot Spots, High Concentration Plume, and Low Concentration Plume.

7. A comprehensive list of technologies were evaluated and screened for applicability to remediate the Hot Spots and Source Zone. Bioremediation and air sparging were retained for further evaluation for the Hot Spots and Source Zone. In addition, EZVI™ was retained for potential application in the Source Zone. We generally concur with the screening process, rationale, and retained technologies.

   We would recommend consideration for the development of various alternatives of the retained technologies for cost comparisons. For example, consider evaluating air sparge wells with radius of influence coverage across the entire Hot Spot versus use of picket fence spacing of sparge wells. The same type of evaluation could also be considered for the bioremediation alternative including use of recirculation.

   Response: Comment noted. Given the limited aerial extent of the Hot Spots and Source Zone, customized alternatives will be developed for each retained alternative, which is consistent with the approach taken at other sites.

8. We concur with the identified data gaps and would recommend that these be addressed prior to development of the Step 2. In addition, further assessment in locations as identified above should be considered.

   Response: Additional DPT locations are proposed and results will be presented to the NASA Remediation Team in a subsequent data gap ADP.

Tetra Tech Comments:

Tetra Tech generally concurs with the information presented in the Contractor's Road Heavy Equipment Area (CRHE) Step 1A and 1B Engineering Evaluation ADP, with the following comments:

Step 1A Comments:

1. Slide 18 – The conversion for the K value from ft/d to ft/yr appears to be slightly miscalculated, assuming 365 days/year.

   Response: These data were taken directly from the RFI document prepared by others. The discrepancy is a rounding difference of 0.6%, which arose from the previous consultant reporting a rounded K value of 7.6 ft/d rather than 7.556 ft/d.

2. Slide 19 – Please reference the yellow highlighting for the analytical results for DPT072 and DPT100 represent, possibly concentrations greater than NADC?

   Response: Slide 19 has been revised to include a note to reference that the yellow highlighting represents concentrations greater than NADCs.

3. Slide 22 – The southeastern plume with a hot spot area is defined by one actual detection and multiple elevated detection limits. Will the data set suit for future remedial decision making? In this case, the HCP footprint could potentially be overestimated.

   Response: We do not believe that the HCP is overestimated. While the TCE HCP on this figure is defined by detections in only two locations (3,000 µg/L at DPT092 and 3,800 µg/L at DPT097) and an elevated detection limit in a third location (2,000 U at DPT096), the cDCE and VC concentrations at these locations confirm that the overall HCP in this area of the site is well-defined (i.e., cDCE of 22,000 µg/L at DPT092, 34,000 µg/L at DPT096, and 52,000 µg/L at DPT097, and VC of 2,600 µg/L at DPT092, 7,700 µg/L at DPT096, and 1,500 µg/L at DPT097). Also, these locations are surrounded by non-detect concentrations. The overall HCP plume in this area is based on true NADC exceedances and the proposed focus of remedial action will not be driven by elevated detection limits.

4. Slide 27 – Further delineation surrounding DPT0174 to the west and southwest may be necessary.

   Response: This area is typically wet and/or submerged so we sampled accessible areas on a grid pattern in areas we were able to clear and access. We believe the DPT dataset provides adequate data at this time given the groundwater flow direction, north to south extent of the plume, and shape of the dissolved plume. We concur that higher resolution spacing may be appropriate if active remediation is conducted in this area but since the COCs in the vicinity of DPT174 are daughter products, and like similar sites, this area of the site may not be actively remediated in the near future, we considered the delineation adequate. However, based on Team feedback, additional sampling locations have been proposed in this area.

5. Slide 28 – An additional sample location southwest of DPT0174 may be necessary to define the HCP.

   Response: See above response.

6. Slide 30 – Recommend further delineation of NADC exceedances at DPT0159, DPT066, and DPT0052, detected in the northern portion of the site to attain recommended criteria of 50 ft spacing for HCP.

   Response: The concentrations at the indicated locations are not significantly above NADCs (120 to 130 µg/L) and are not parent compound (VC only). However, based on Team feedback additional locations have been proposed in the indicated areas.

7. Slide 31 – Recommend tighter boundary data points around the DPT0080/0149/0161 HCP.

   Response: We recommend that additional sampling be completed if/when active remediation is conducted in this area; however, based on Team feedback additional locations have been proposed in the indicated areas.

8. Slide 32 – Recommend further delineation southwest of DPT0174.

   Response: See above responses for Slides 27 and 28.

9. Figure 9 – Several DPT locations have exceedances at their deepest interval (for example, 127, 129, 130, 135, 148, 149, 174), usually at 46'-50' bgs. Concentrations at several of these locations, such as 127, 148, 158, and 174, are fairly high. There is vertical delineation at some nearby points (including one deep well in the area), but at least one location, DPT131, also has an exceedance at 60+' bgs. None of the locations listed above (with the exception of DPT131) are shown on the CVOC cross-sections (Figures 22 and 23). Additional vertical delineation may be required.

   Response: We do not feel that it is necessary to complete vertical delineation in every location, but DPT borings were advanced to 65 ft terminal depth across the site to provide overall vertical delineation of the plume. One of the benefits of conducting the EVS modeling while assessment activities are being conducted is to show visually that there are sample locations spread across the site providing vertical delineation of impacts without needing to advance every boring to non-detect concentrations. The VC concentration in DPT131 (2.5 µg/L) exceeds the GCTL, but the decision was made not to advance the boring further to delineate this single digit VC concentration. Additionally, it should be noted that DPT locations 136, 139, 064, 144, and 145 in the immediate vicinity of those listed above have clean bottoms at 60 to 65 ft BLS. Significant contaminant mass is not likely present at this depth; however; since this potentially represents a data gap, a boring will be advanced adjacent to DPT131 to collect a confirmation sample at 61 to 65 ft and possibly 66 to 70 ft BLS, if needed.

Step 1B Comments:

- General – Further sampling may be needed to be performed in order to fully delineate HCP, Hot Spots, and Source Zone.

  Response: Additional sampling has been proposed as discussed above.

- Slide 6 – The mass is listed as 238 pounds; in the Step 1A, 224 pounds is used. Were different areas used for these two calculations? Since the technology screening is by plume interval, it would be beneficial to show mass distribution by plume interval.

  Response: In the spreadsheet for the mass estimates, an extra cell was inadvertently included in the mass estimates when total dissolved and total sorbed numbers were calculated from the mass estimates by constituent. This has been corrected resulting in mass estimates of 224 and 227 pounds in the Step 1A and 1B ADPs, respectively (the difference of approximately 1% in these numbers is related to rounding).

- Slide 12 – 0.75 acres seems like a good area for a heating project, especially considering the depth. It is not so small that the unit costs would be too high. Unless there is a different reason for not considering the heating technologies, it should potentially be retained.

  Response: Originally heating technologies were retained, but as compared to the other potential options for this site (bioremediation and air sparging), the unit costs for heating technologies will be higher. Therefore, the decision was made to eliminate it at this step in the process.

- Slide 15 – Additional data gaps - similar to the "General" comment above, better delineation of the HCP and hot spots will be required prior to design activities; we suggest that delineation to the KSC-recommended intervals be completed at that time.

  Response: We agree that there are several areas, as discussed herein, which could be refined when/if NASA would like to conduct remediation in these areas. In the Source Zone, where Step 2 activities will likely be focused, we feel that the dataset is adequate for proceeding with the additional DPT locations that have been proposed.

- Slide 17 – Hot Spots for cDCE and VC are not specifically addressed since TCE was separated out.

  Response: Agreed. The technologies that have been recommended for retention for evaluation during the Step 2 EE are appropriate for TCE and daughter products. However, we did not focus on constituents on Slide 17 because we are seeking team consensus on the retained technology list, not areas of the site or constituents to be evaluated.

***

APPENDIX C

STEP 1 FOR HS1
ENGINEERING EVALUATION ADP
(electronic copy only)

Geosyntec consultants

Contractor's Road Heavy Equipment (CRHE) Area (SWMU055)

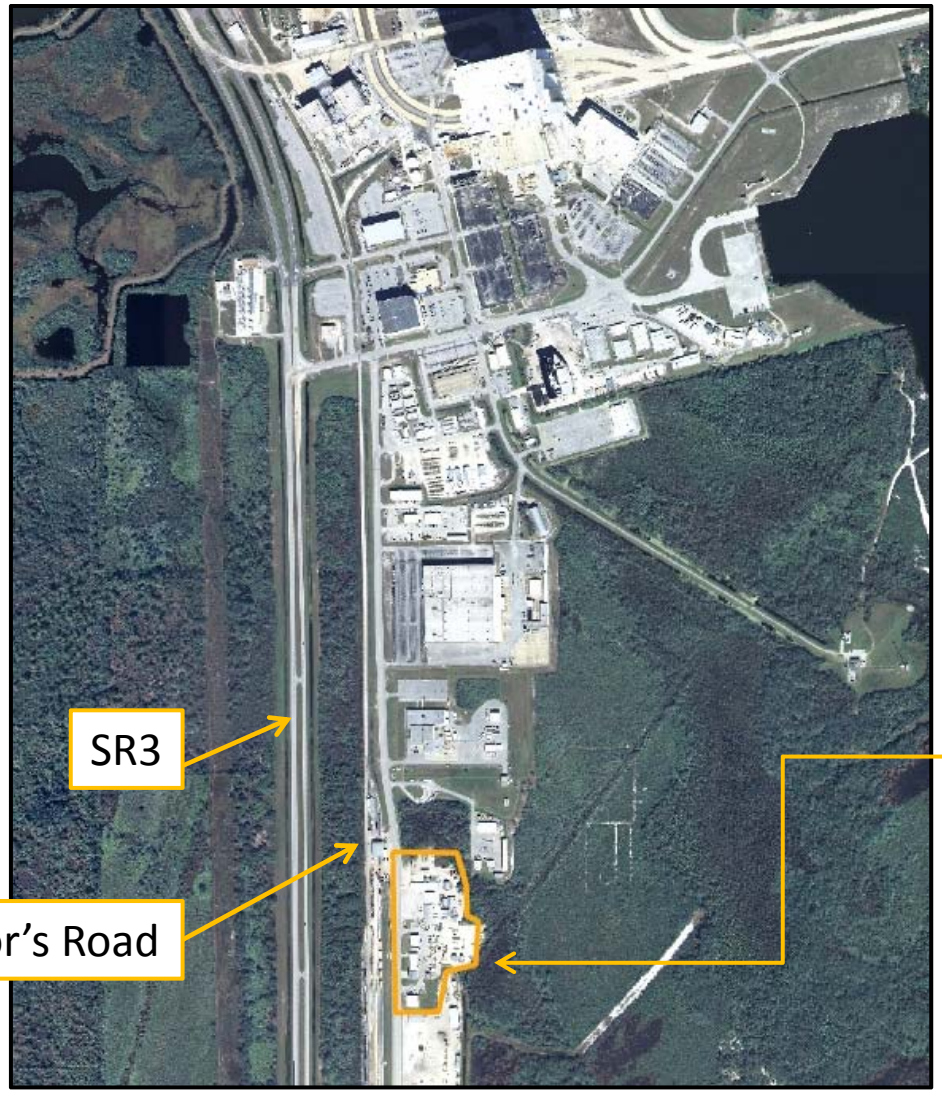
Step 1 Engineering Evaluation – Hot Spot 1

December 2013

Today's Presentation

- Step 1 Section A
  - Site Overview
  - Review of June 2012 Step 1 ADP
  - Definition of Hot Spot 1 (HS1) Area
  - Site Conditions
  - Summary of Supplemental Site Assessment Activities
  - Test Consensus
- Step 1 Section B
  - Review of Pertinent Site Conditions
  - List of Technologies
  - Engineering Data Gaps
  - Technologies Retained
  - Path Forward/Test Consensus

Site Location



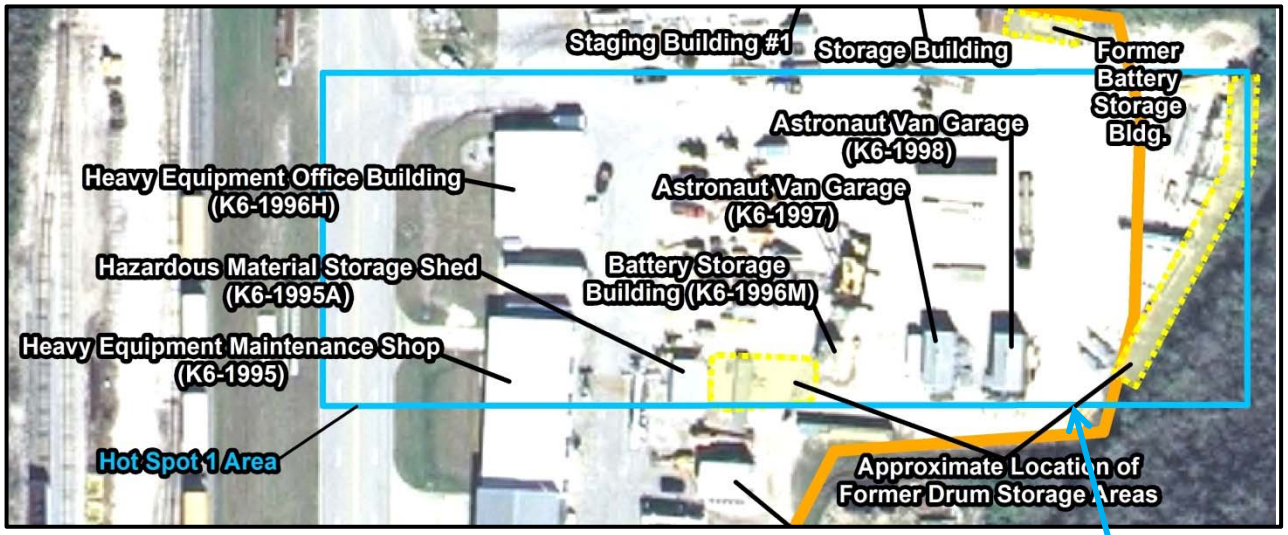
Site Overview

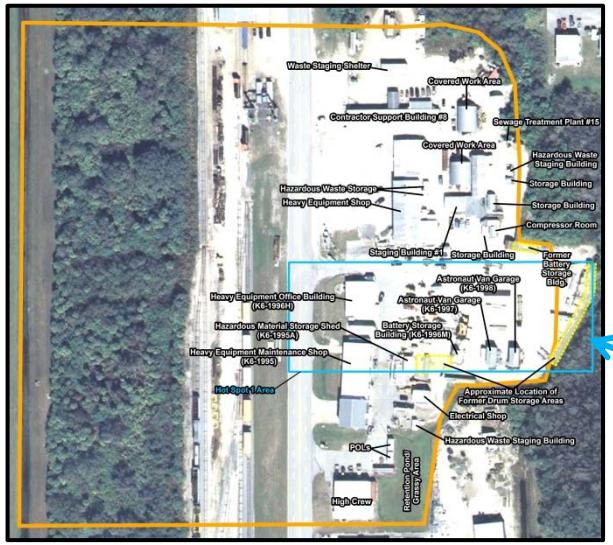
- Overall site features:
  - About 23 acres
  - Paved portions
  - Majority of site is gravel and dense woods
  - Many underground utilities
  - Thick road base in some areas to support heavy equipment
- Historical site use:
  - Hazardous Waste Storage/Staging
  - Printed Circuit Board Manufacturing
  - Domestic Wastewater Treatment
  - Heavy Equipment Maintenance/Storage (historical and current use)

Photograph of heavy equipment storage at CRHE; view facing south from the Contractor's Road entrance driveway, with Heavy Equipment Office Building (K6-1996H) shown on far right.

Site Overview

- HS1 features:
  - About 3 acres
  - Paved and gravel
  - Underground utility corridor along Contractor's Road
  - Thick road base in northern part of HS1

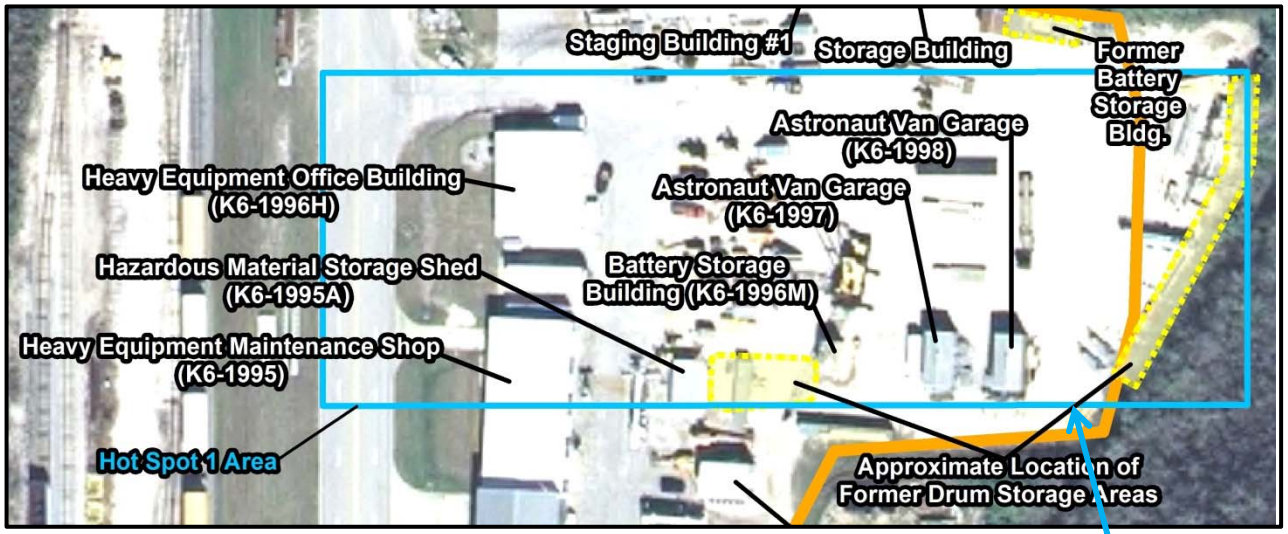


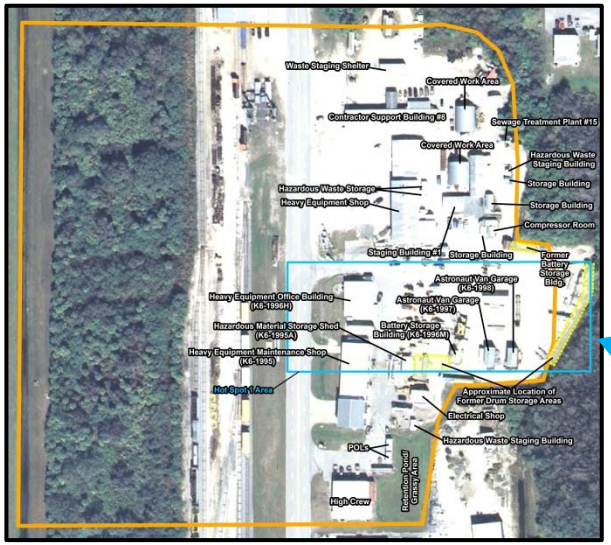


Hot Spot 1 Area

Site Overview

- Numbered buildings and support structures in HS1
  - K6-1995: Heavy Equipment Maintenance Shop
  - K6-1995A: Hazardous Material Storage Shed
  - K6-1996H: Heavy Equipment Office Building
  - K6-1996M: Battery Storage Building
  - K6-1997 and K6-1998: Astronaut Van Garages





Hot Spot 1 Area

Assessment Background

- 1994: Preliminary assessment (EG&G, Inc.)
  - Identified CVOCs and metals in GW
  - Recommended additional assessment
- 1997-1999: RFI (HSW, Inc.)
  - VC up to 370 µg/L in northern area (waterloo profiler)
  - TCE up to 41 µg/L (in IW-4I), down to 0.4 µg/L by end of RFI activities
  - Highest concentrations between about 15 and 45 ft BLS

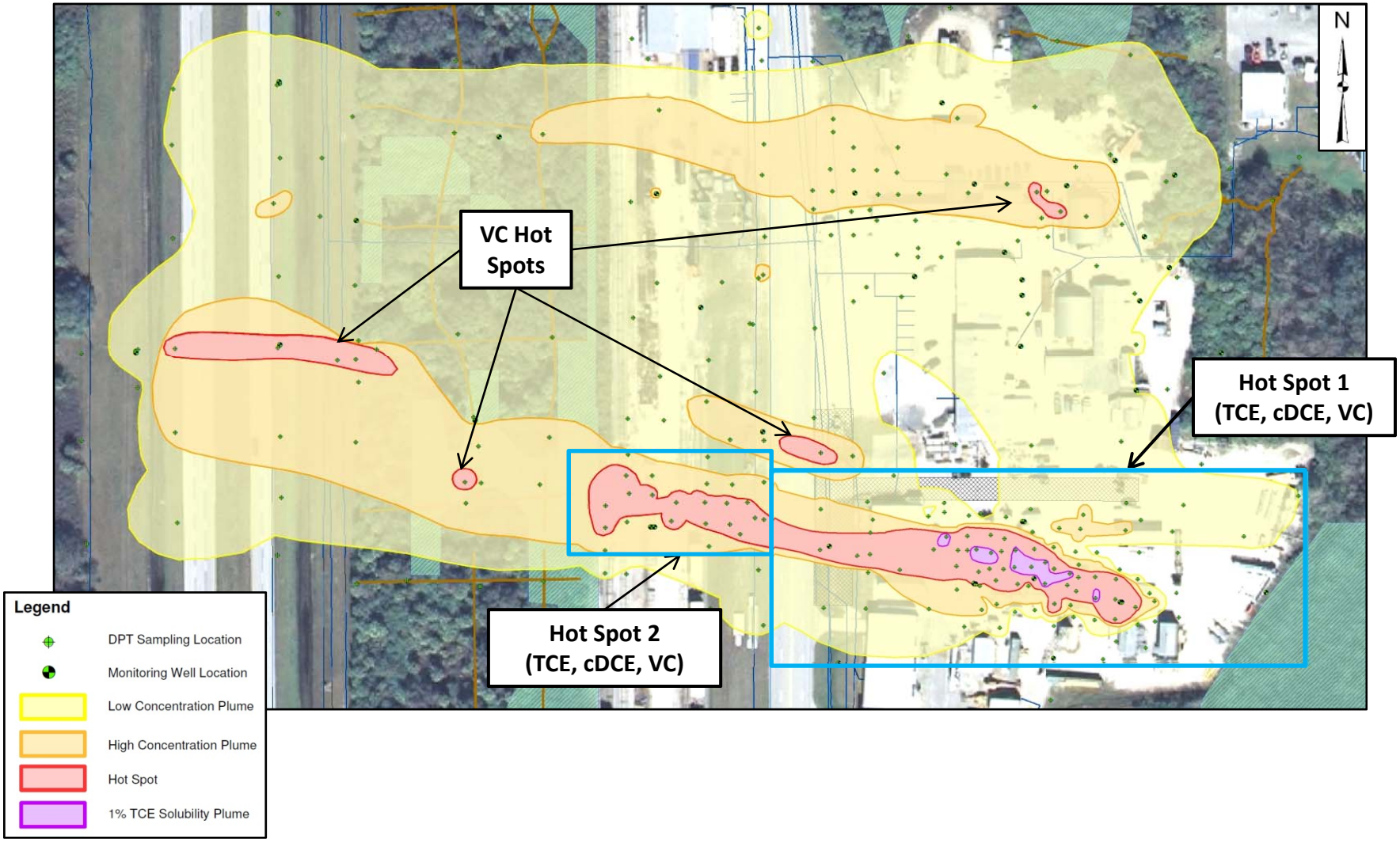
Assessment Background

- 2000: Corrective Measures Study (CMS) (HSW, Inc.)
  - Site clean up goals established for industrial setting
  - LUCIP for groundwater
  - No active corrective measures recommended
  - LTM program to monitor natural attenuation of CVOCs in groundwater
  - 10 year estimated timeframe to reach cleanup goals
- 2000 – 2005: Semi-annual GW sampling in 7 wells
- 2005 – 2009: Site incorporated into VAB LTM program
- May 2010: Team approved discontinuing LTM program at the Site until assessment is complete
- 2009 – 2013: Supplemental Site Assessment

Review of June 2012 Step 1 ADP

- Step 1 submitted for entire site in June 2012
- Team expressed concerns regarding delineation and recommended additional sampling
- Five weeks of additional sampling was conducted between October 2012 and June 2013
- Delineation of site-wide LCP, HCP, and HS2 is on-going
- Copy of June 2012 ADP and response to comments are included electronically with this ADP for reference

Overall Site and Identification of Hot Spots



Hot Spot 1 Area

Note: DPT spacing based on 100 ft spacing for LCP, 50 ft spacing for HCP samples, 25 ft spacing for HS samples, and limited 10 ft spacing for Source Zone.

Office/Admin Building

Area of Subsurface Obstructions

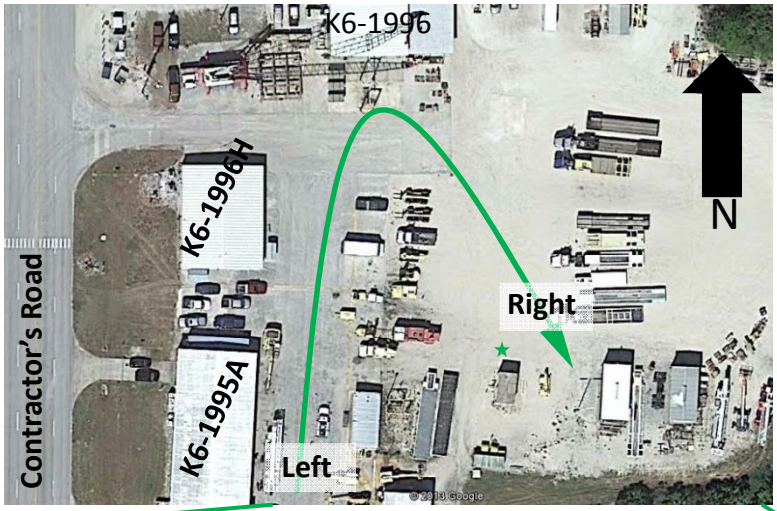
Utility Corridor

Hot Spot 1 Supplemental Site Assessment

- 1 MIP profile
- DPT groundwater samples in HS1
  - 745 from 94 locations
  - Generally sampled from 16 to 60 ft BLS at 4 ft intervals
  - Some sampling to 70 ft BLS for vertical delineation
- Water level measurements (Mar-12 and July-13)
- Lithology borings to 80 ft BLS (1 within HS1, 1 just west)
- Monitoring well installation and sampling (July-13)
  - deep well (65 to 75 ft BLS) to confirm vertical delineation in source area
- Monitoring well sampling (Mar-12)

Site Conditions

- Lithology
- Hydrogeologic site characteristics
- Groundwater flow



Cross Section Plan View

Geosyntec consultants

Response to Comments

Jacobs-CORE Comment #1: There are 3 soil borings used to generally describe the lithology across the southern portion of the plume (which includes HS1). Only one is within HS1, and it is primarily downgradient (west) of the highest levels of TCE. Consider adding at least one soil boring east of SB06 and DPT72 to ensure the entire area where DNAPL could be present is adequately characterized from a lithology perspective. It would be advantageous to understand in more specific detail the interval between 35 and 50 ft, particularly in evaluating source area treatment technologies.

Response: Although it is true that only one soil boring is in HS1 area, there were a total of 7 lithology borings advanced across entire site to characterize subsurface lithology. Lithology collected at site to date and presented in this ADP was generally consistent and is adequate for meeting objectives of Step 1 EE; however, potentially collecting additional, focused lithology data in the selected remedial area (depending on selected remedy) may be useful. This additional data can be gathered before the remedy is implemented.

Lithology A to A'

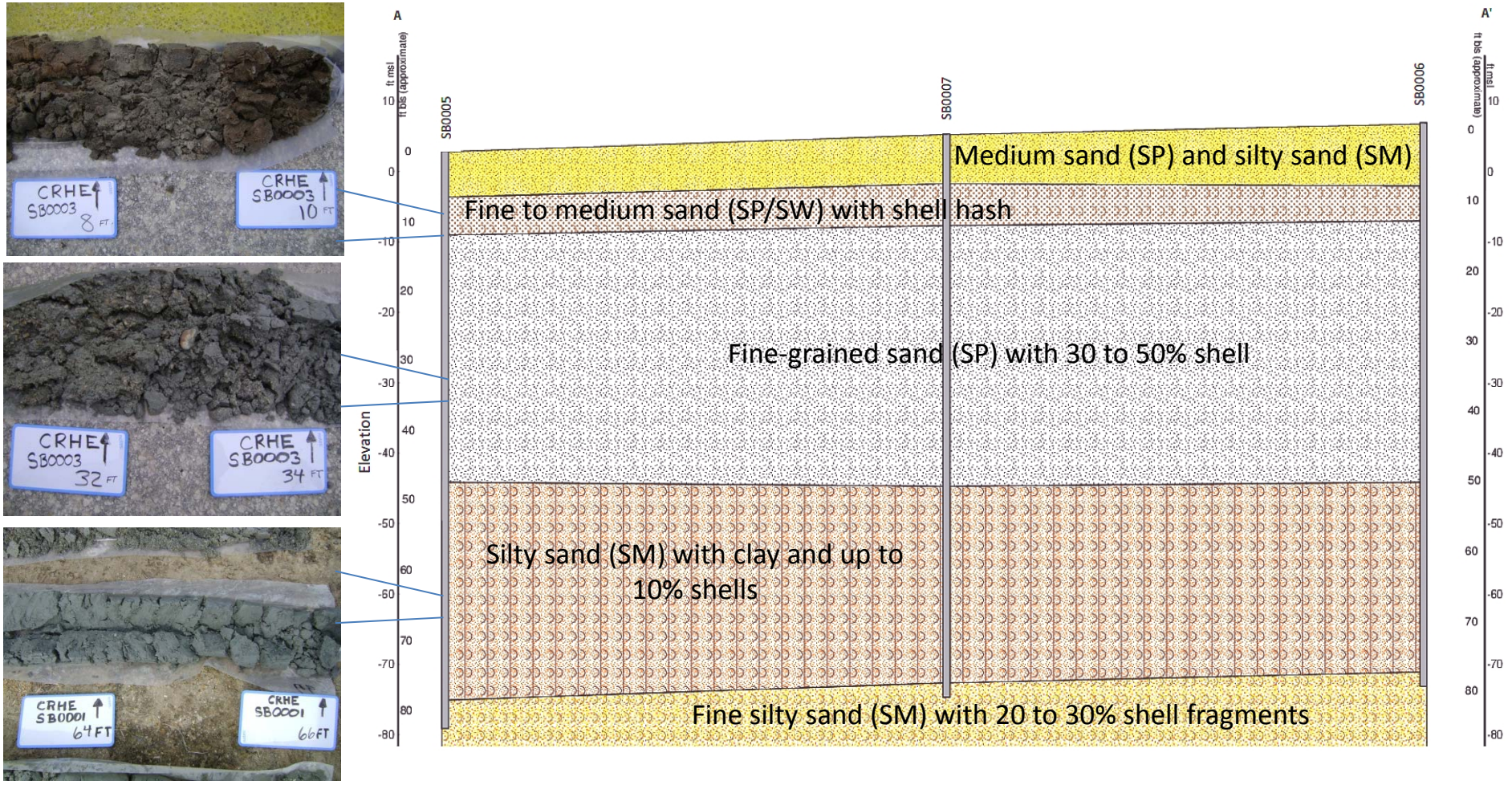


Figure 1

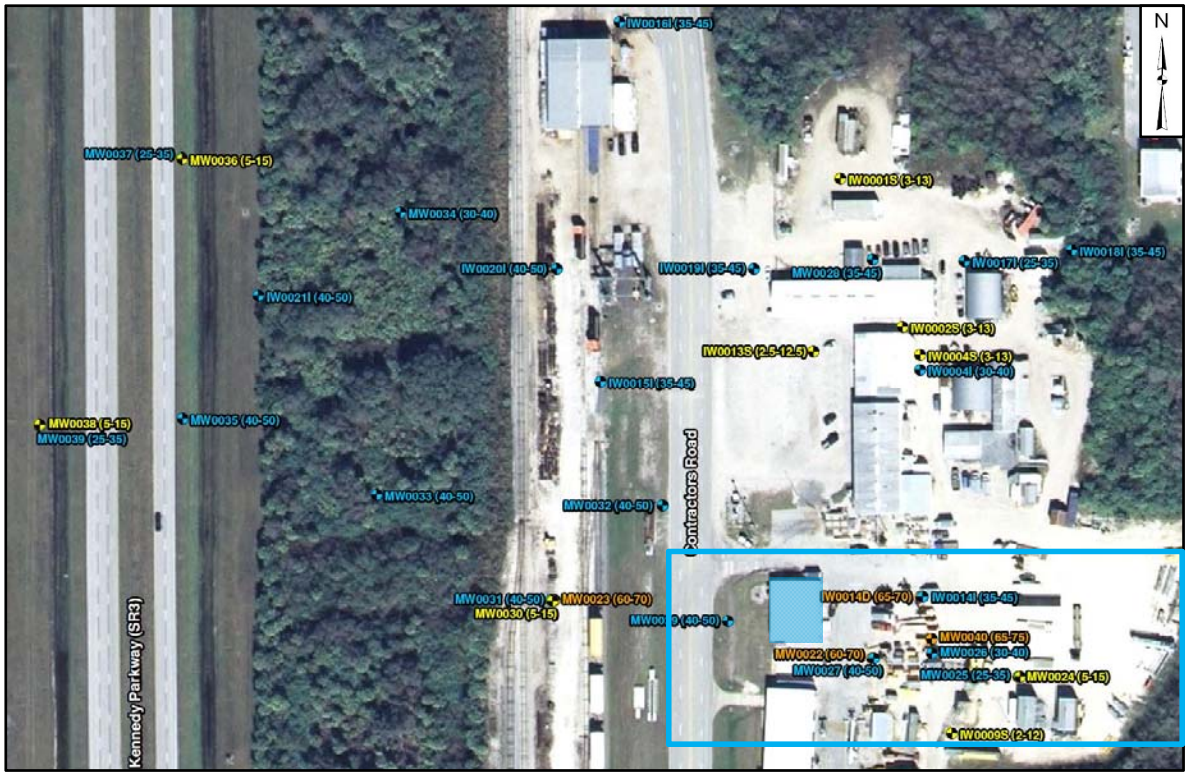
Response to Comments

Jacobs-CORE Comment #2: Slides 13, 14, 24, 42 – The lithology description shows a fairly consistent fine-grained sand and shell layer from approximately 12 to 50 ft bls; however, the highest levels of TCE are shown in the 36 to 40 ft bls depth range. This indicates something pertinent in or just below this zone, which could be holding DNAPL, and that is discussed on Slide 42. Should that be shown on the lithology drawing (Slide 14)? Again, more detail of this interval would be beneficial in planning and executing any technology which targets the source zone.

Response: The lithology presented on the cross section (Figure 1) is generalized and the surfaces for lithology transitions were correlated. In SB0006, there are changes in the ratios of sand, shell and clay at 35, 41, and 51 ft BLS. As discussed in a previous response, depending on the selected remedial options, it may be useful to collect additional, focused lithology information in this zone.

Current Monitoring Well Network

- 17 shallow (<15 ft BLS) (yellow)
- 23 intermediate (25 to 50 ft BLS) (blue)
- 4 deep wells (>60 ft BLS) (orange)



Shallow Groundwater Flow – July 2013

Figure 2

Note:

1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is presented in ft and is referenced to the North American Datum of 1988.

Response to Comments

TT Comment #1: Slide 16 – The water level MW0024 does not appear to be consistent with the expected potentiometric surface nor do the plumes appear to mimic the easterly directional divide. Is there a suspected cause for the groundwater divide in the region of this well to result in the significant easterly component? Please confirm if this is an anomaly and if MW0025 may be hydraulically communicating with MW0024.

Response: Historically, shallow gw has been observed to be influenced by wetlands that are to the N, E, and W; therefore, the easterly shallow gw flow is not unexpected.

Based on lithology, it is possible that there is a hydraulic connection between MW24 and MW25. MW24 is partially screened in the same unit as monitoring well MW25 (fine grained sand with shell unit).

Some of the gw elevations referenced NGVD29 and some NAVD88. The gw elevations were updated to reference NAVD88 and updated gw elevation maps have been provided.

Intermediate Groundwater Flow – July 2013

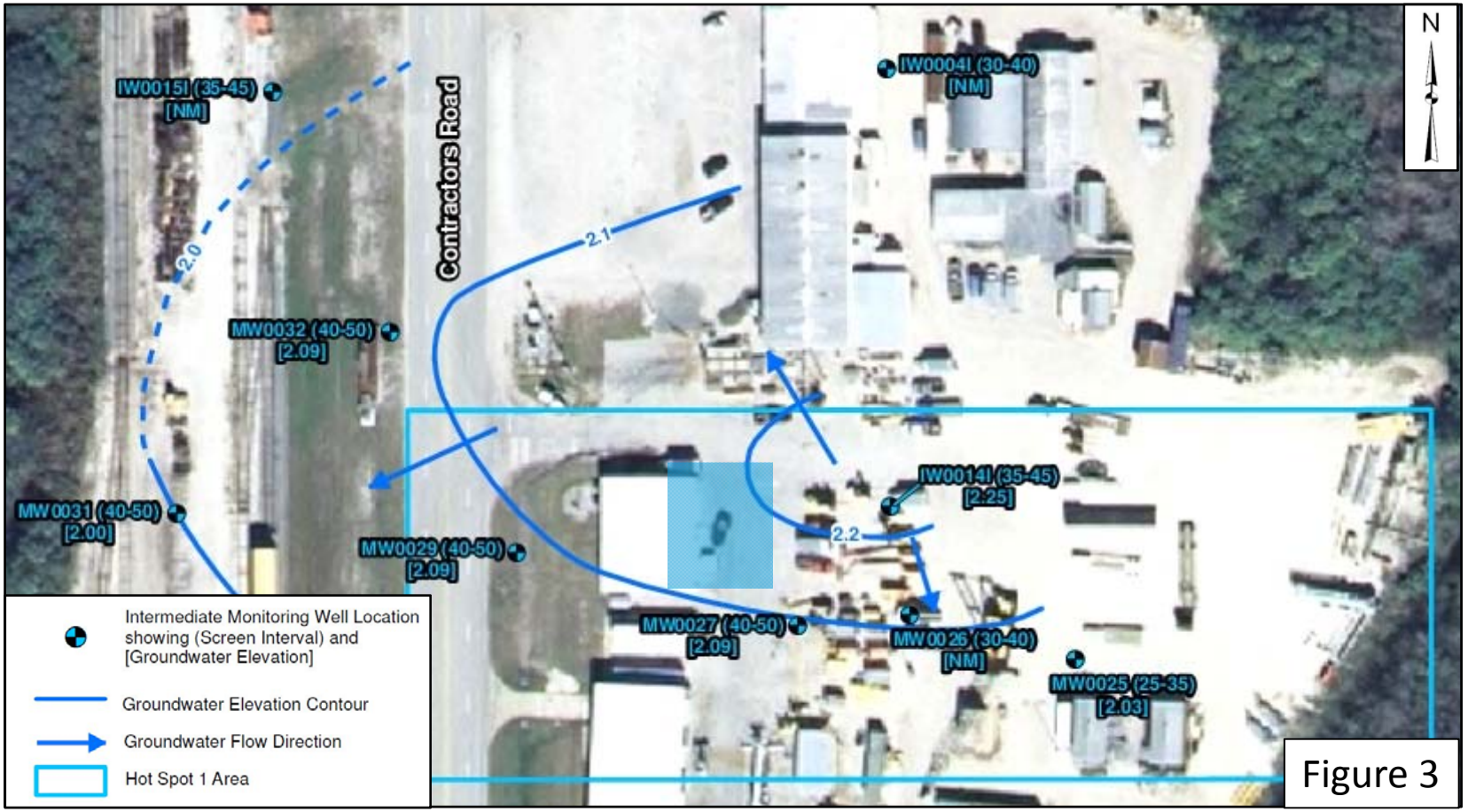


Figure 3

Note:

1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is presented in ft and is referenced to the North American Datum of 1988.

Response to Comments

Jacobs-CORE Comment #3: Slide 17 – The shape of the plume generally provides good confirmation of the gradient and gradient trends at a site. The CRHE intermediate groundwater flow map shows a fairly strong southerly component that does not correlate well with the plume configuration. Could the MW0029 measurement be incorrect (possibly a damaged well)?

Response: It does appear that monitoring well MW29 is controlling the groundwater flow direction, but we feel this is based on the limited number of water levels that were collected, since this effort was focused on HS1. There was no damage observed to the well during the water level collection.

Deep Groundwater Flow – July 2013

Figure 4

Note:

1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is presented in ft and is referenced to the North American Datum of 1988.
3. MW0040 was installed by others but not surveyed. DTW was 2.32 ft BLS but groundwater elevation could not be calculated.

Hydrogeologic Site Conditions

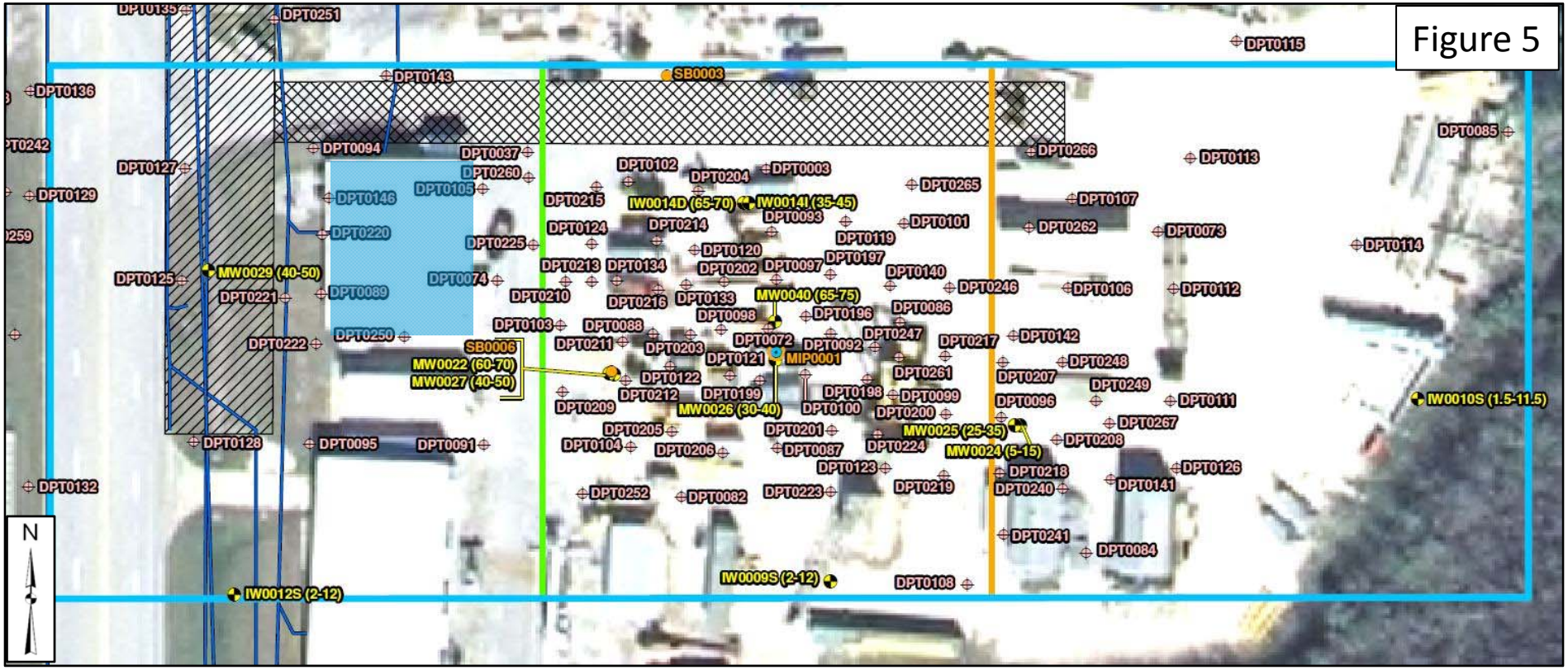
- General groundwater flow direction within HS1
  - Shallow: Variable (west and east components of flow)
  - Intermediate: Generally southwest
  - Deep: Southwest (based on 3 wells in southern portion of site)
- Depth to groundwater 2 to 6 ft BLS
- K of 7.6 ft/d (2,774 ft/yr) from specific capacity tests on shallow and intermediate wells during RFI

GW Zone	Approx. Depth (ft, BLS)	Av Gradient (ft/ft)	Est. GW Flow Velocity (ft/y)
Shallow	<15	0.002	28 ft/y*
Intermediate	15 to 55	0.005	69 ft/y*
Deep	>60	0.002	--

* Actual groundwater flow velocity is likely highly variable with higher K plume transport intervals and lower K mass storage intervals.

Sample Locations

Figure 5

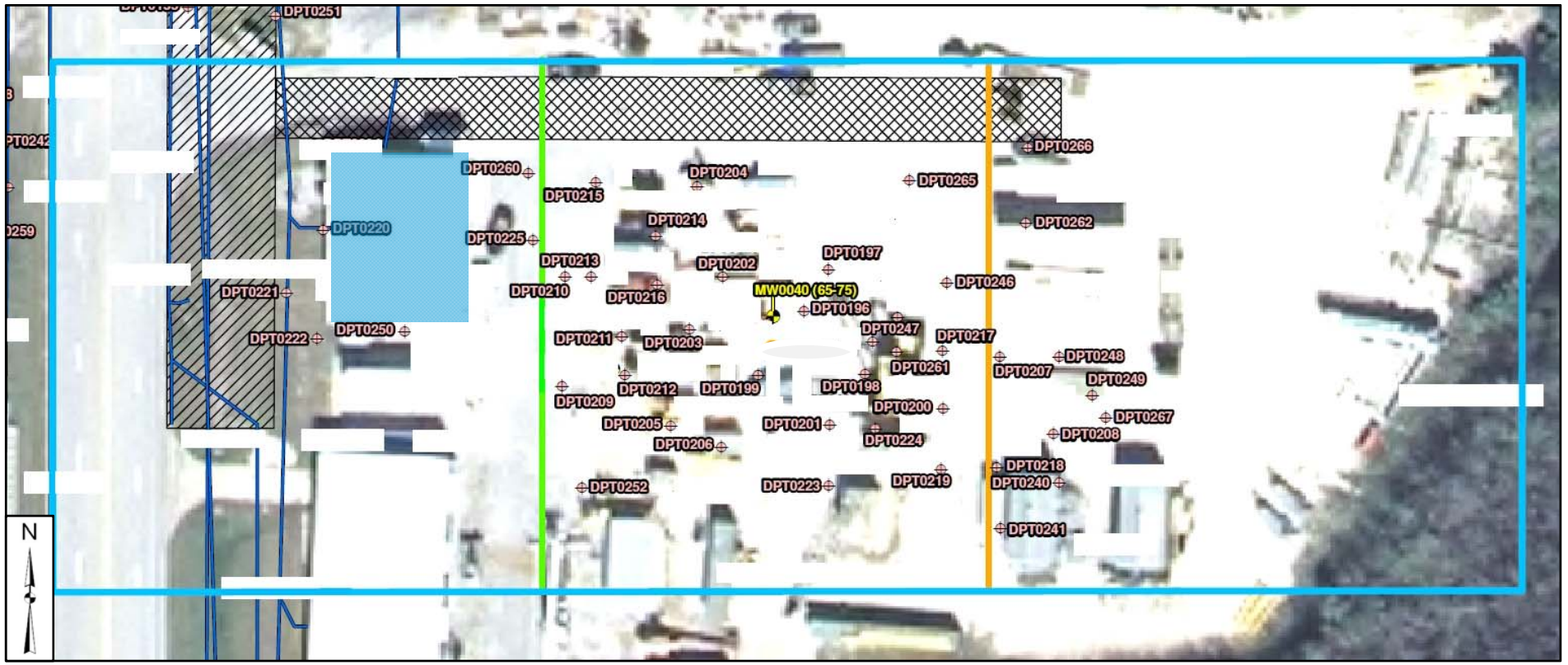


Notes:

1. Tag maps included as Figures 6, 7, and 8 (not included in presentation).
2. Sampling not conducted within building because the building functions as administrative space and a conference room. Pending Step 2 technology selection, DPT stepouts can be conducted using angled DPT drilling, if needed.
3. Sample locations could not be cleared in the utility corridor after the early locations were completed (i.e., DPT125 and DPT127).

Geosyntec consultants

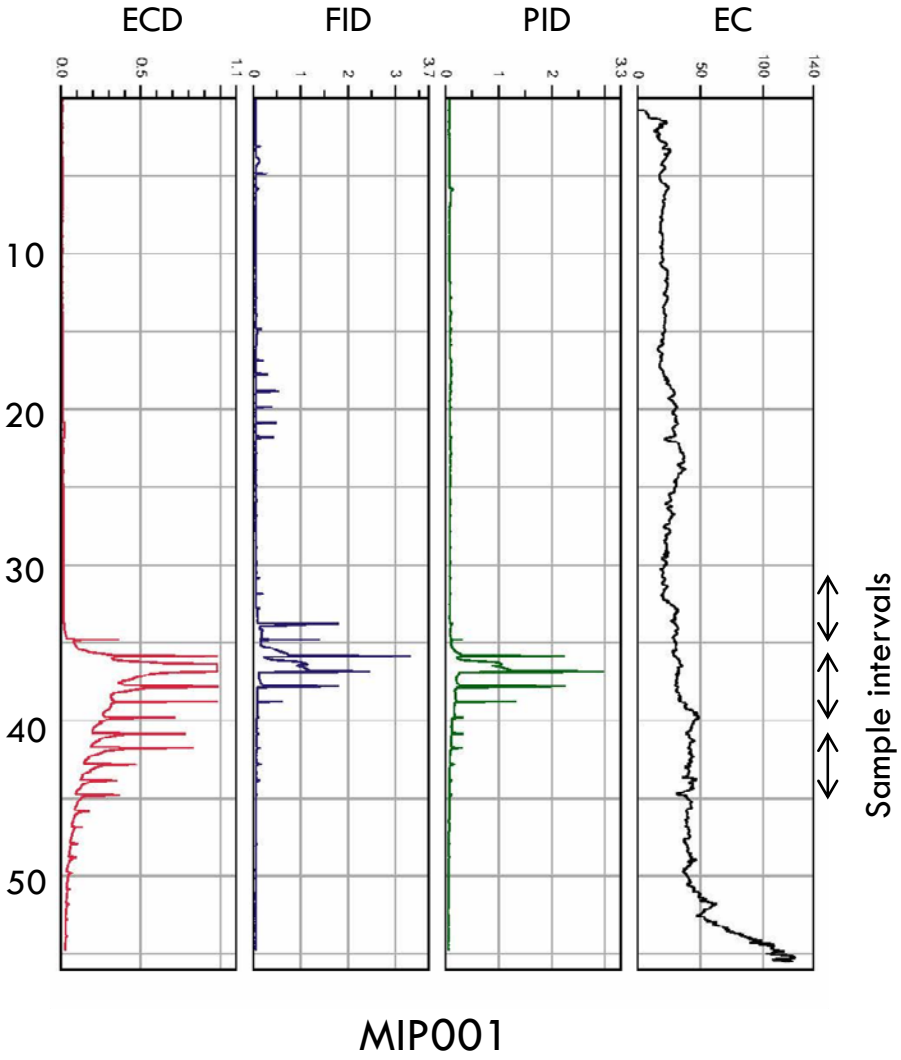
Sample Locations (since June 2012 ADP)



Legend

- Membrane Interface Probe (MIP) Location
- Soil Sampling Location
- DPT Sampling Location
- Monitoring Well Location showing screen interval (ft BLS)
- Underground Utilities
- East Side Spider Division Line
- West Side Spider Division Line
- Hot Spot 1 Area
- Area of Subsurface Obstructions
- Utility Corridor

MIP Results



MIP001

DPT072			
Interval (ft, BLS)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)
8 to 12	1.0 U	1.0 U	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U
26 to 30	1.0 U	1.0 U	1.2
36 to 40	**160,000**	**48,000**	**4,600**
41 to 45	**1,300**	**570**	**54**
46 to 50	**24.0**	4.7	1.0 U
56 to 60	**210**	**100**	4.0 J
61 to 65	**43.8**	15.8	1.0 U

DPT100			
Interval (ft, BLS)	TCE (µg/L)	cDCE (µg/L)	VC (µg/L)
8 to 12	1.0 U	1.0 U	1.0 U
12 to 16	1.0 U	1.0 U	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U
21 to 25	1.0 U	1.0 U	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U
31 to 35	**21,000**	**31,000**	**7,400**
36 to 40	**32,000**	**59,000**	**17,000**
41 to 45	**210**	**380**	**72.0**
46 to 50	**19.5**	28.0	**5.4**

Yellow highlighting indicates concentrations above NADCs.

Response to Comments

TT Comment #2: Slide 22 – TCE mass consistently seems concentrated from 36 to 45 feet bls. Are there any lithologic or geotechnical variations in this zone that resulted in the majority of mass in this depth interval? Discussion of the site conceptual model from a mass and lithologic standpoint would be a beneficial addition to the CHRE Step 1 EE and downstream remedial decision making.

Response: The CSM will be discussed from this perspective during the ADP presentation. The lithology borings and MIP log correlate and show a change in lithology at approximately 50 ft BLS. The FID, ECD, and PID results from the MIP log and the DPT sampling results show a majority of the mass is present from 36 to 45 ft BLS. Reviewing the soil boring logs shows that between 30 and 40 ft BLS at the site, the lithology transitions from a sand with ~30% shell to sand with ~50% or more shell. Similar to other sites, the primary high concentration interval maybe associated with an interval of silty sand that is not visible to the eye.

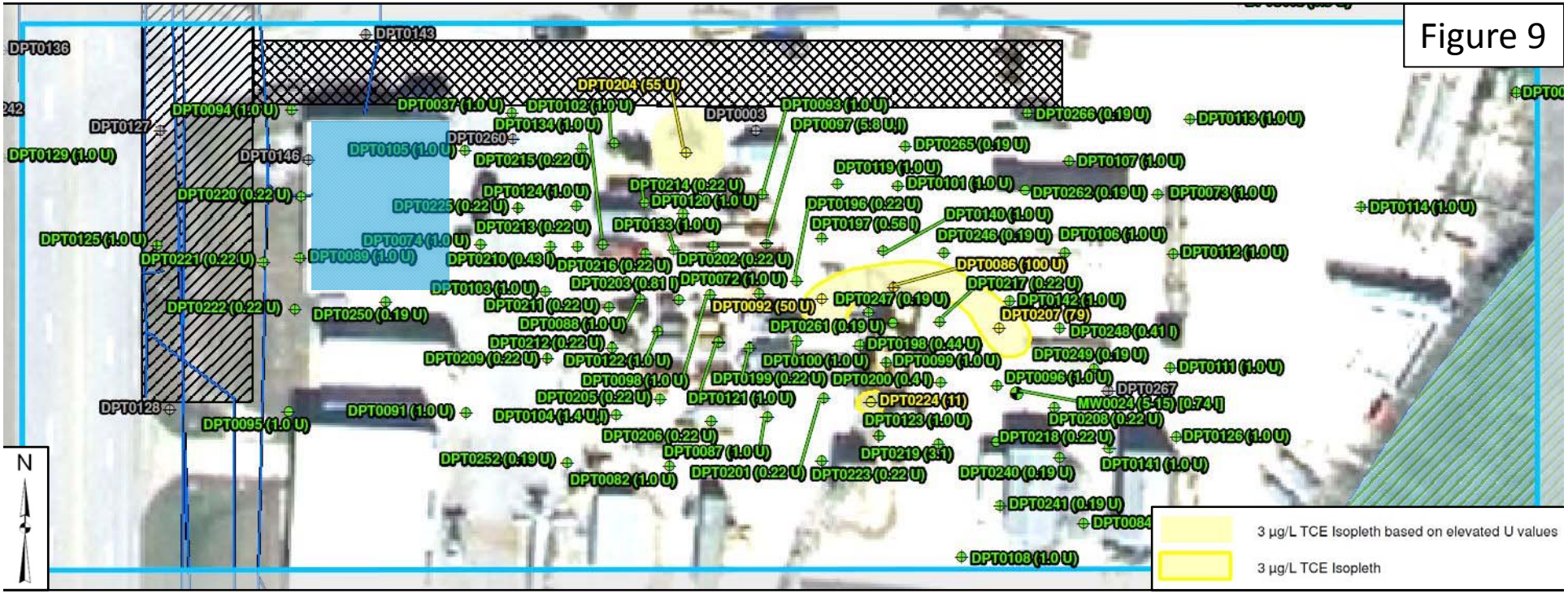
Hot Spot 1 Supplemental Site Assessment

- Max concentrations identified in HS1 (µg/L)
  - TCE = 160,000 (DPT72, 36 to 40 ft BLS) (represents 14.5% of TCE solubility; DNAPL likely present)
  - cDCE = 110,000 L (DPT200, 26 to 30 ft BLS) (L=value exceeded calibration range)
  - VC = 19,000 (DPT200, 31 to 35 ft BLS)
- Source Zone defined as 11,000 µg/L (1% TCE solubility) because this represents the area where DNAPL could be present
- ½ detection limit was used for contouring purposes for ND values

Geosyntec consultants

TCE 8 to 16 ft BLS

Figure 9



Legend

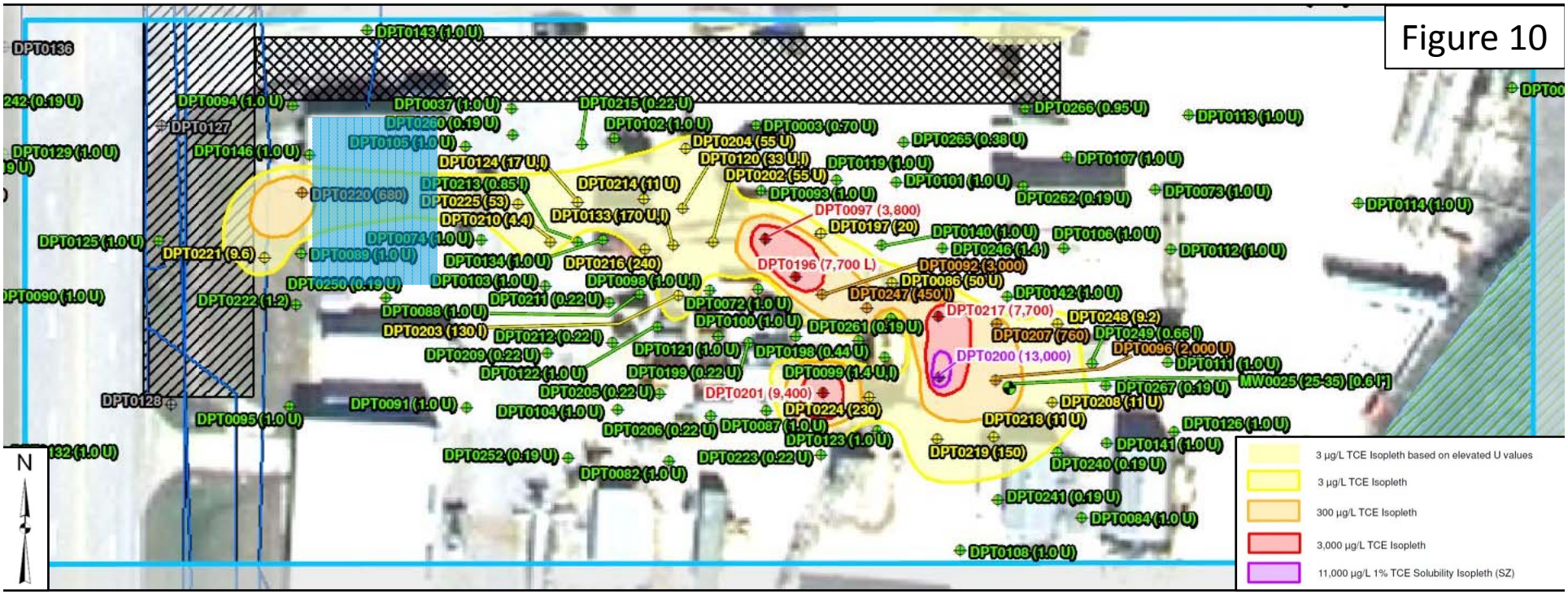
DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

TCE concentration less than or equal to 3 µg/L
(Only locations with results > 1.0 U are labeled)

TCE 16 to 30 ft BLS

Figure 10



Comment: Stepouts around DPT0200 at 10 ft spacing will be considered pending Step 2 technology selection (i.e., ERH would warrant higher resolution; air sparge or bioremediation likely would not).

Legend

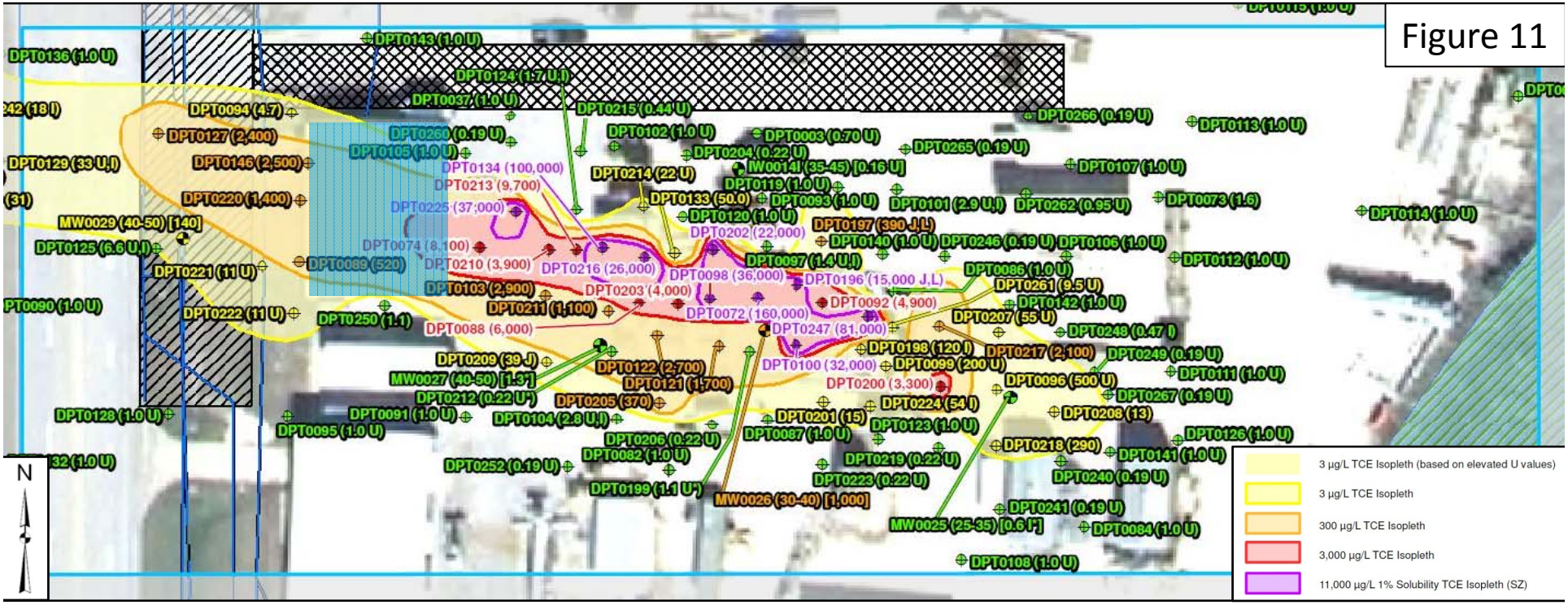
DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

TCE concentration less than or equal to 3 µg/L
(Only locations with results > 1.0 U are labeled)

TCE 31 to 46 ft BLS

Figure 11



Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

TCE concentration less than or equal to 3 µg/L
(Only locations with results > 1.0 U are labeled)

Response to Comments

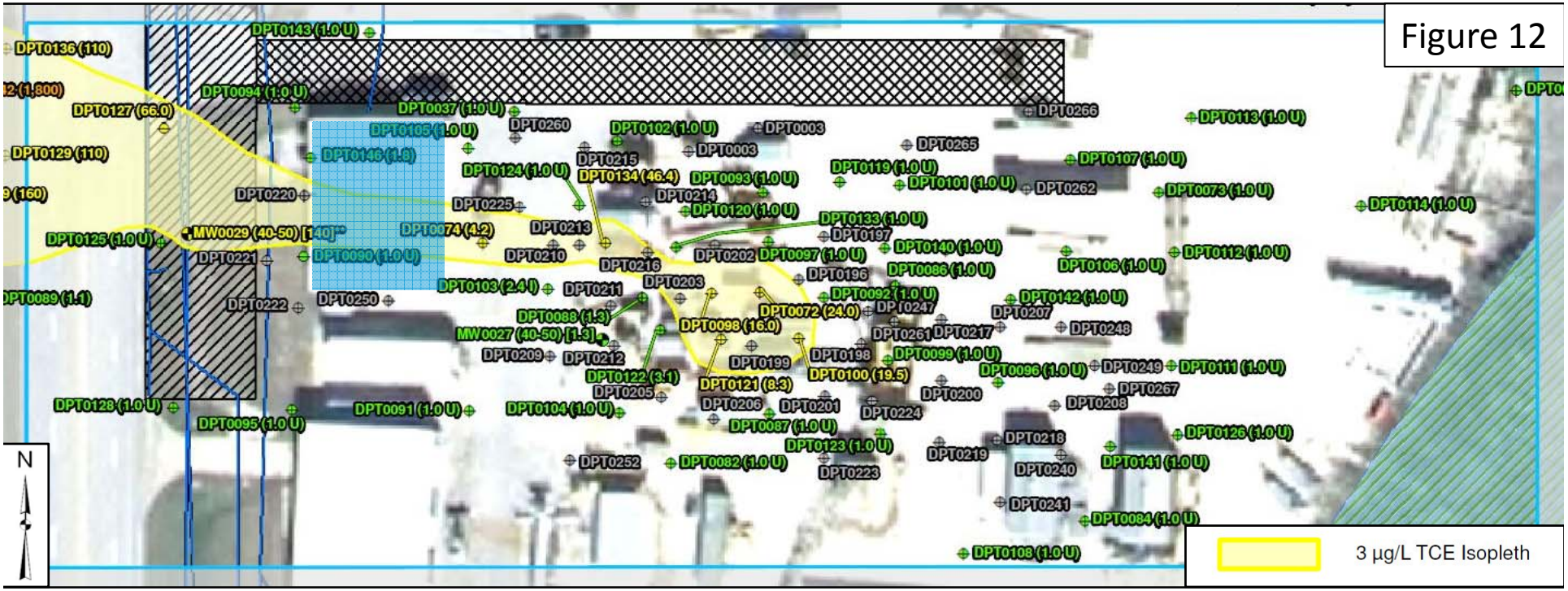
Jacobs-CORE Comment #4: Slides 26 and 44 to 46 – Minor comment, but from a remediation perspective it seems prudent to assume that the area between DPT0098 and DPT0216 is above 1% solubility (contoured purple). The same could be considered for the area between DPT0247 and DPT0196, along with the area between DPT0134 and DPT0225. Again, this is just from a remediation perspective based upon the potential error in sampling in these high concentration areas, but it affects the SZ area shown on Slides 44 – 46, and also would affect the size and planning of any SZ remediation alternative.

Response: We concur that the 1% solubility areas could be combined into one area for purposes of the Step 2 and Step 3 EE.

Geosyntec consultants

TCE 46 to 56 ft BLS

Figure 12



Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

TCE concentration less than or equal to 3 µg/L
(Only locations with results > 1.0 U are labeled)

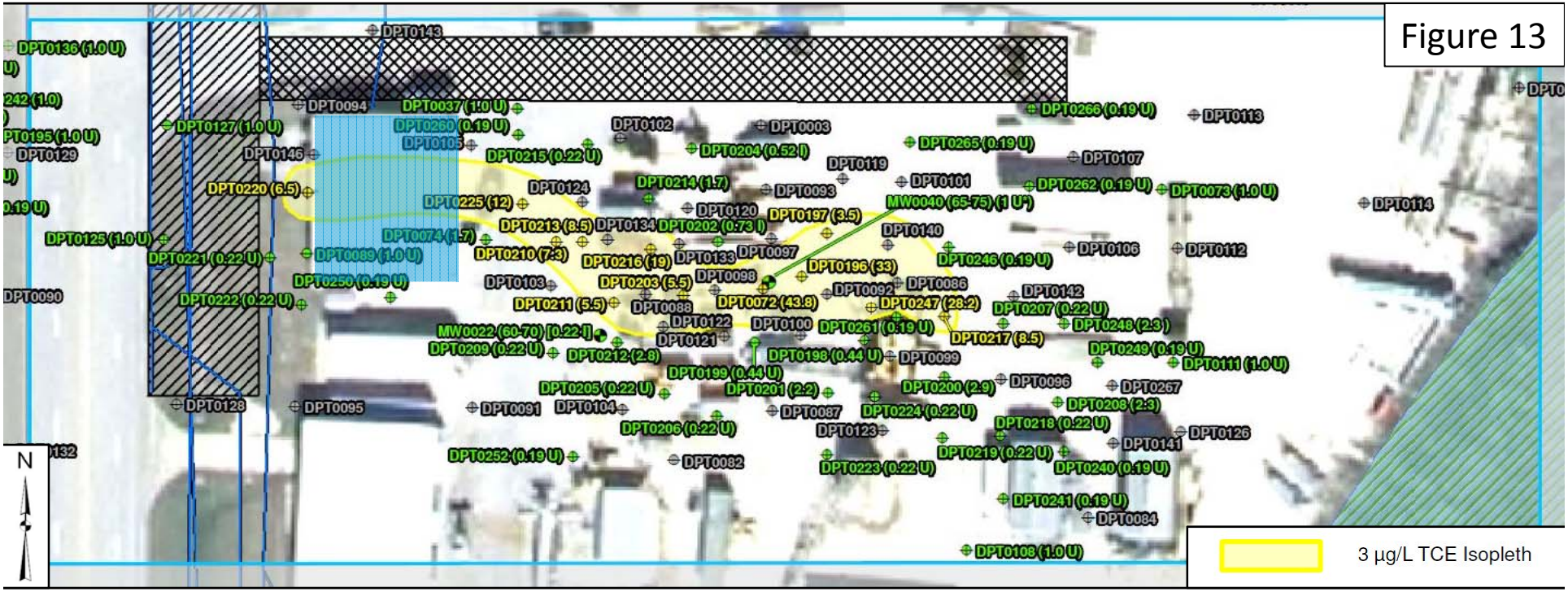
Response to Comments

TT Comment #3: Slide 27 – Elevated TCE results are present in DPT0196, 0202, 0225, and 0247 within the 41 to 45 feet bls sampling interval, and these locations were not sampled within the 46 to 50 feet bls interval. Please confirm if this is a vertical data gap since a sampling point is not present between 45 to 56 feet bls with moderate detections from 56 to 60 feet bls.

Response: We do not feel that this is a data gap. There is a high density of data in each depth zone in HS1, although, as identified, toward the end of the sampling effort, sampling intervals were focused based on the previous results. Also, sampling at depth in these locations was discontinued because of the concern for dragdown and with the understanding that a vertical delineation well would be installed and sampled (MW40).

TCE Greater than 56 ft BLS

Figure 13



Legend

DPT Location Not Sampled in this Interval

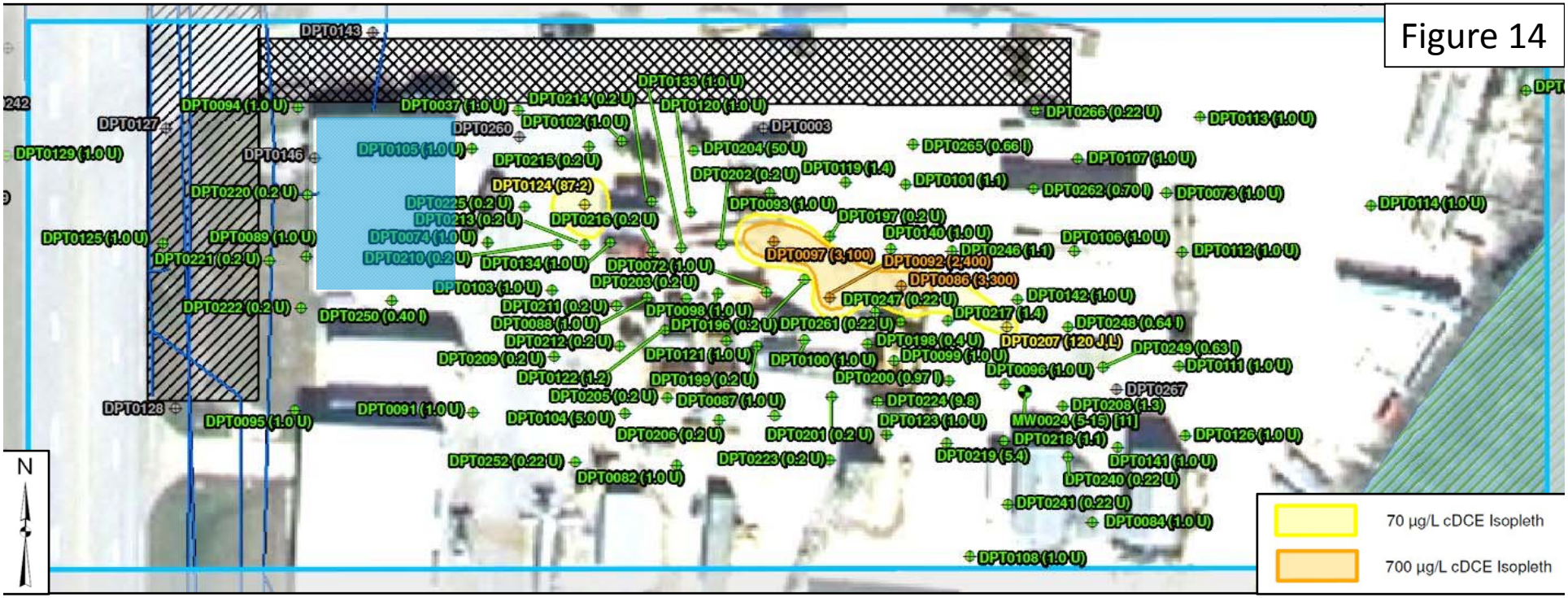
DPT Sampling Location showing (highest TCE Concentration)

TCE concentration less than or equal to 3 µg/L
(Only locations with results > 1.0 U are labeled)

Geosyntec consultants

cDCE 8 to 16 ft BLS

Figure 14



Legend

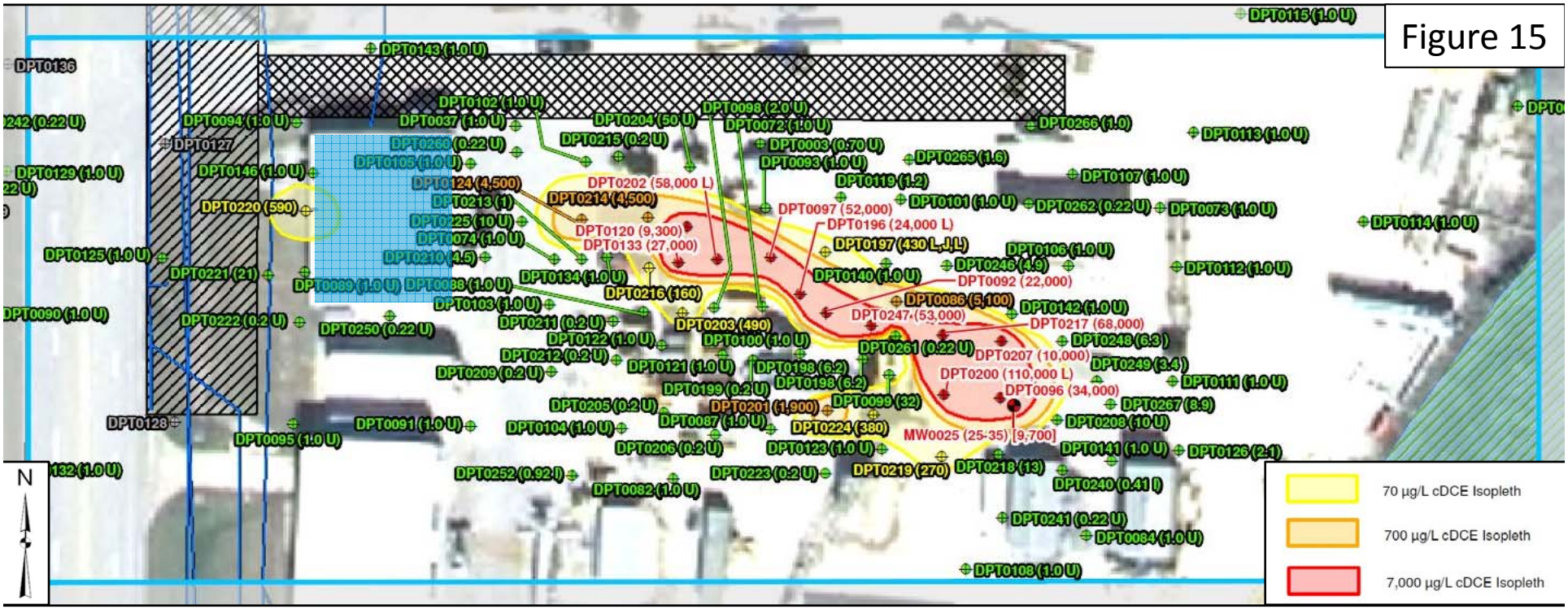
DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

cDCE concentration less than or equal to 70 µg/L

cDCE 16 to 30 ft BLS

Figure 15



Legend

DPT Location Not Sampled in this Interval

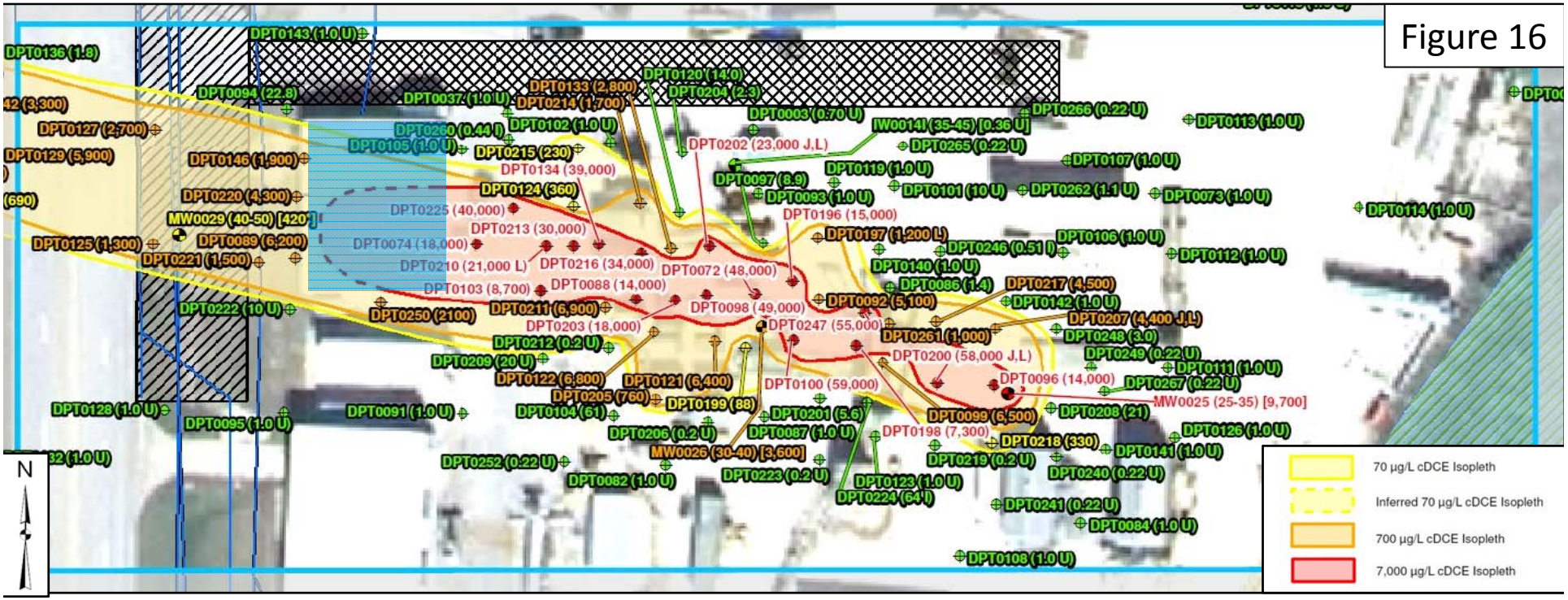
DPT Sampling Location showing (highest cDCE Concentration)

cDCE concentration less than or equal to 70 µg/L

Geosyntec consultants

cDCE 31 to 46 ft BLS

Figure 16



Legend

DPT Location Not Sampled in this Interval

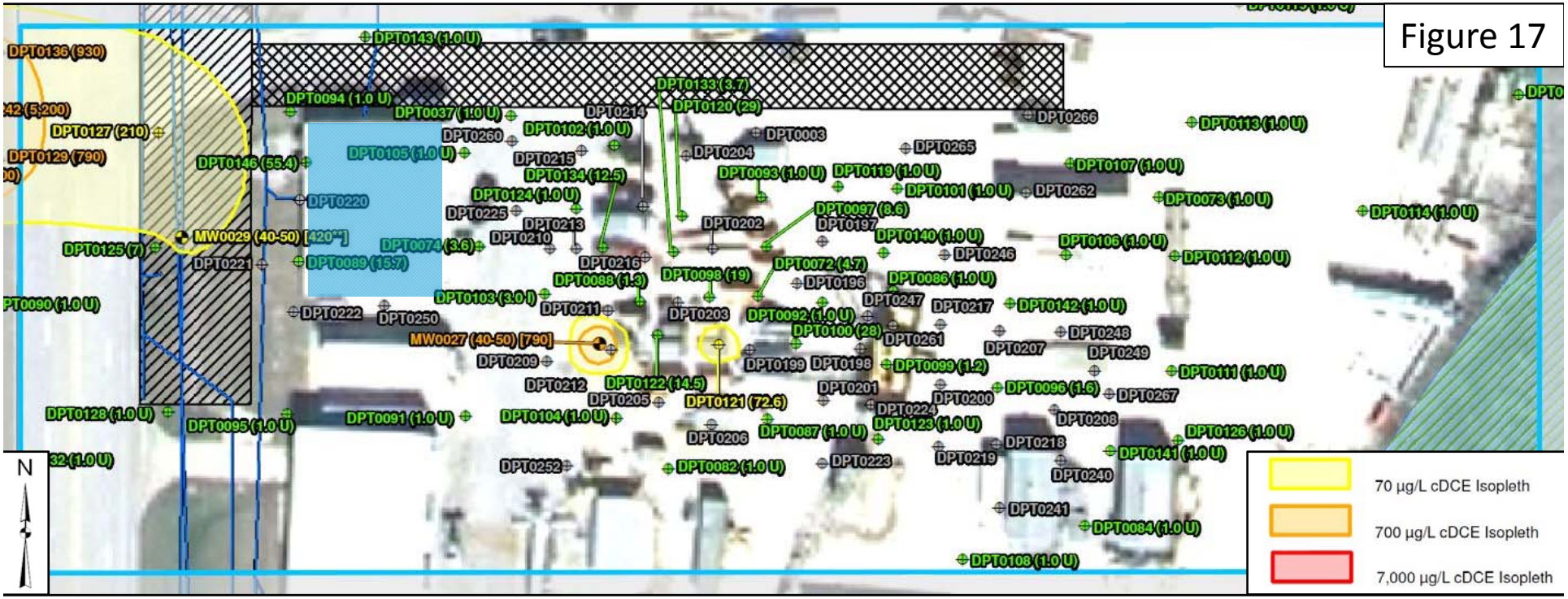
DPT Sampling Location showing (highest cDCE Concentration)

cDCE concentration less than or equal to 70 µg/L

Geosyntec consultants

cDCE 46 to 56 ft BLS

Figure 17



Legend

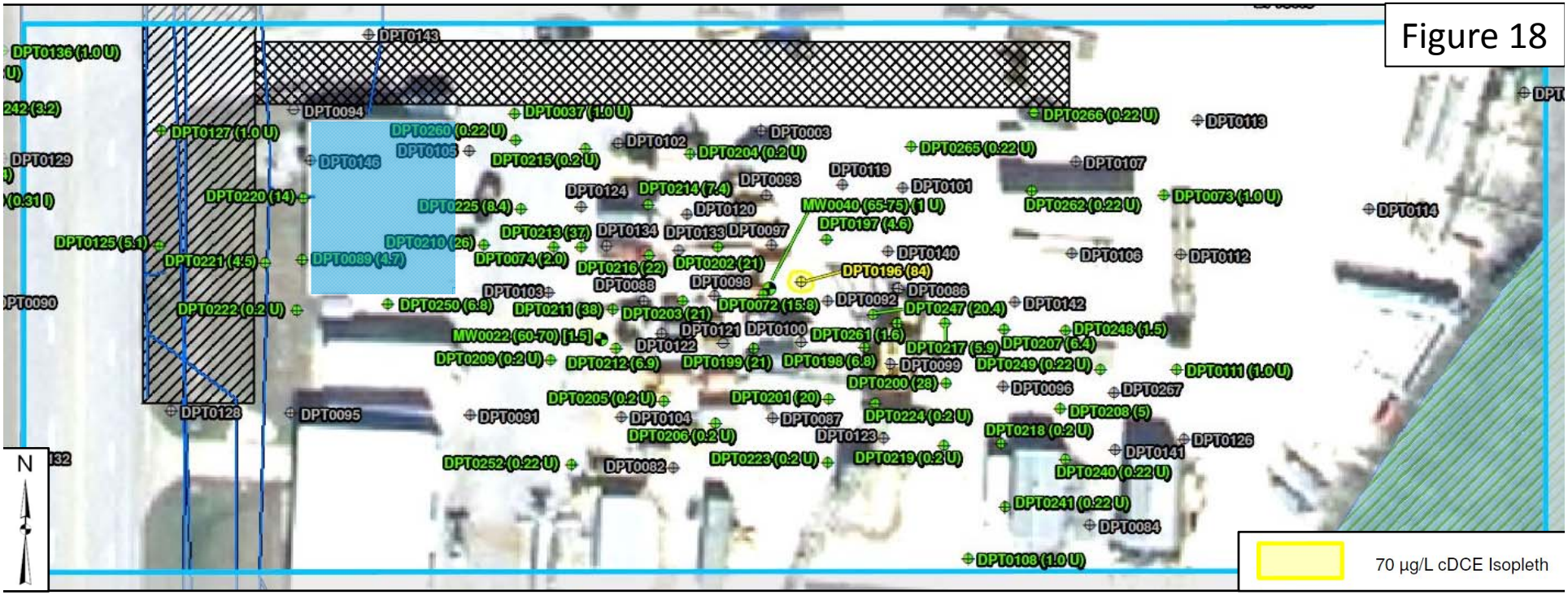
DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

cDCE concentration less than or equal to 70 µg/L

cDCE Greater than 56 ft BLS

Figure 18



Legend

DPT Location Not Sampled in this Interval

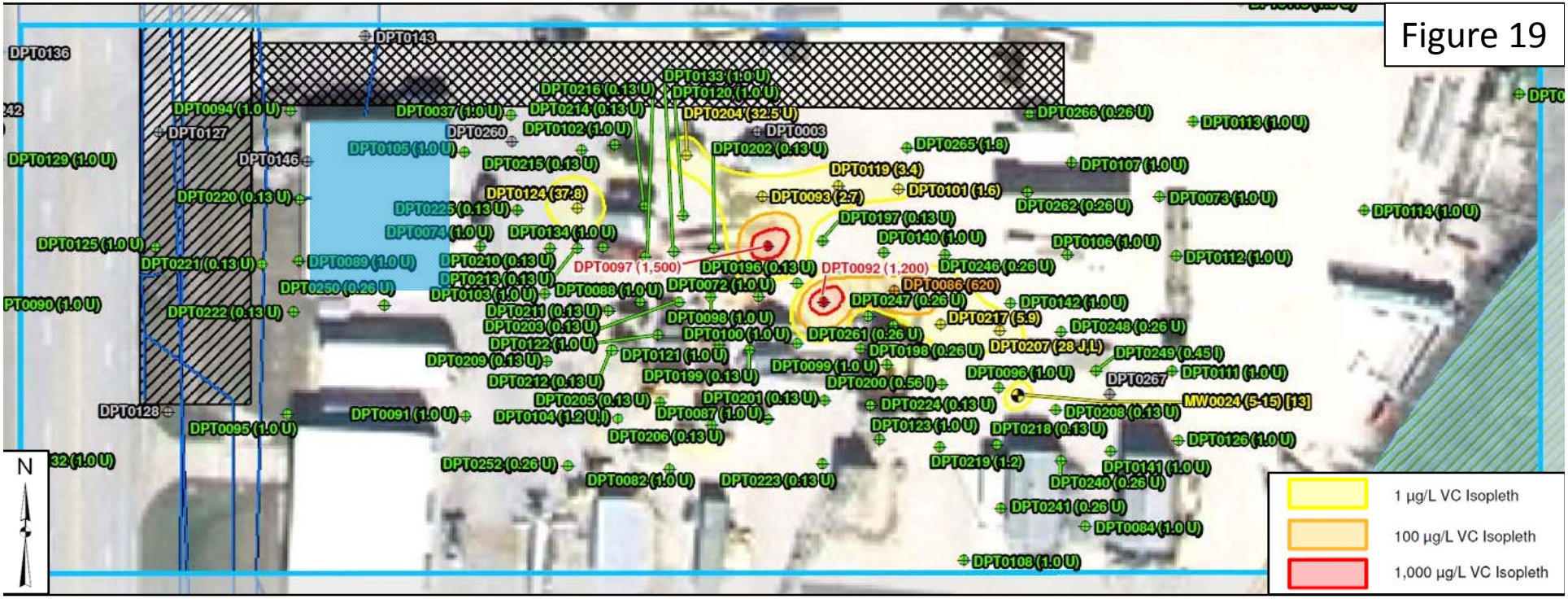
DPT Sampling Location showing (highest cDCE Concentration)

cDCE concentration less than or equal to 70 µg/L

Geosyntec consultants

VC 8 to 16 ft BLS

Figure 19



Legend

DPT Location Not Sampled in this Interval

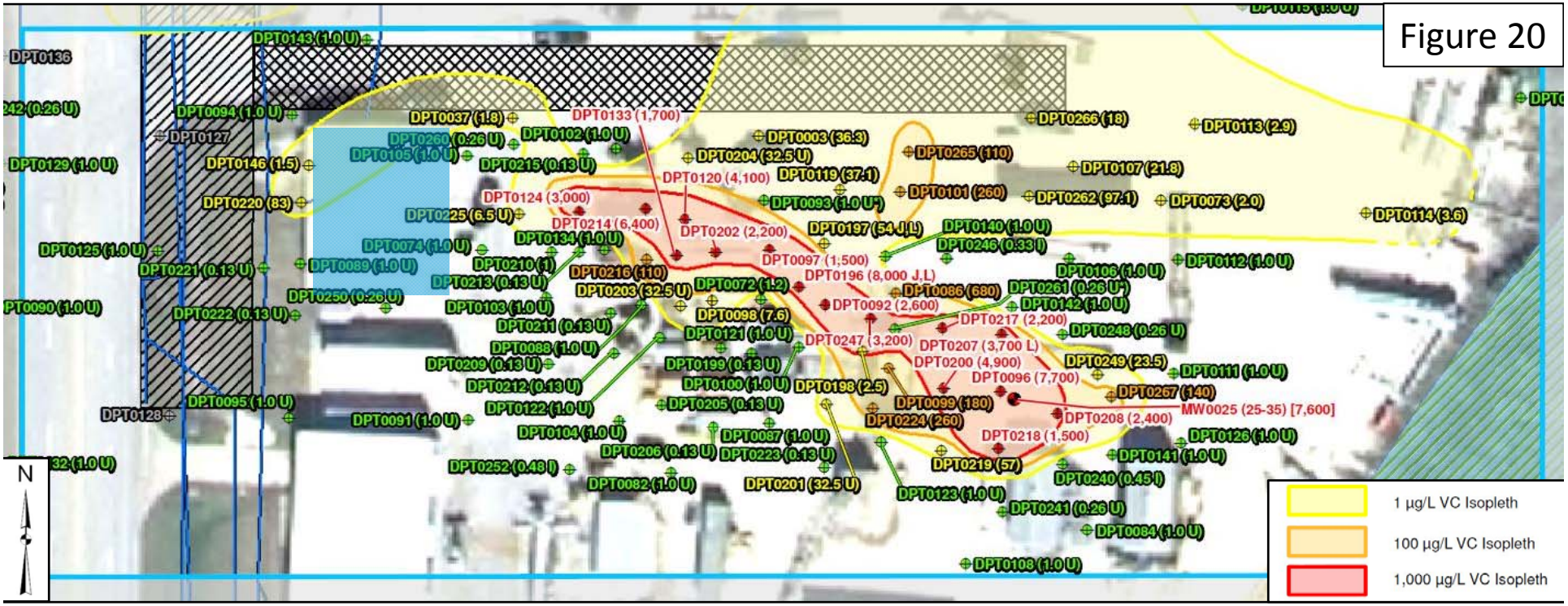
DPT Sampling Location showing (highest VC Concentration)

VC concentration less than or equal to 1 µg/L

Geosyntec consultants

VC 16 to 30 ft BLS

Figure 20



Legend

DPT Location Not Sampled in this Interval

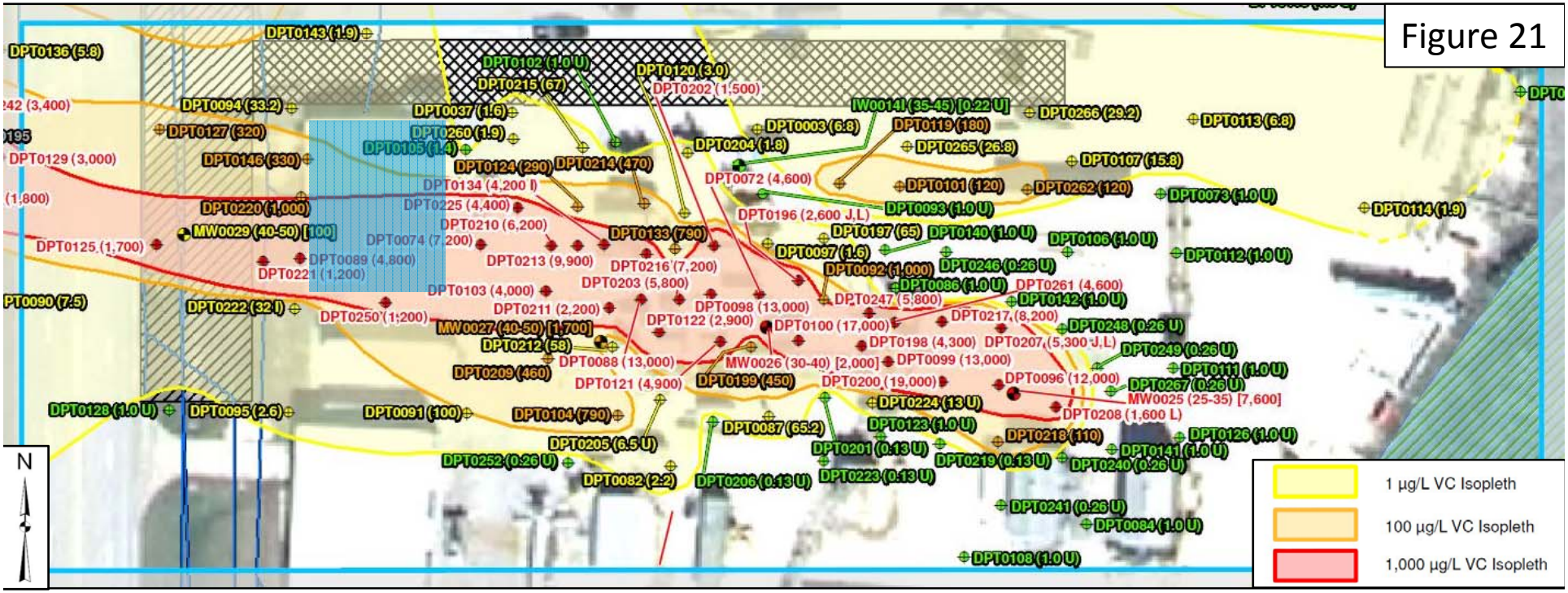
DPT Sampling Location showing (highest VC Concentration)

VC concentration less than or equal to 1 µg/L

Geosyntec consultants

VC 31 to 46 ft BLS

Figure 21



Legend

DPT Location Not Sampled in this Interval

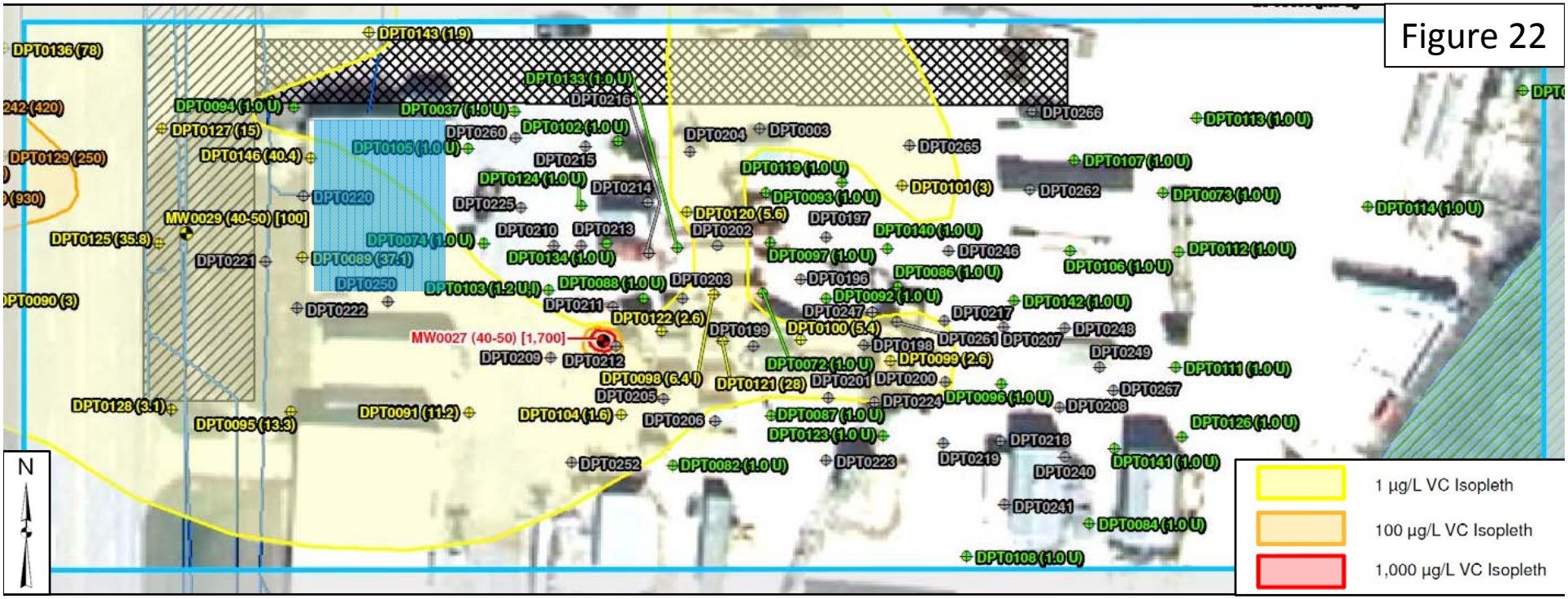
DPT Sampling Location showing (highest VC Concentration)

VC concentration less than or equal to 1 µg/L

Geosyntec consultants

VC 46 to 56 ft BLS

Figure 22



Legend

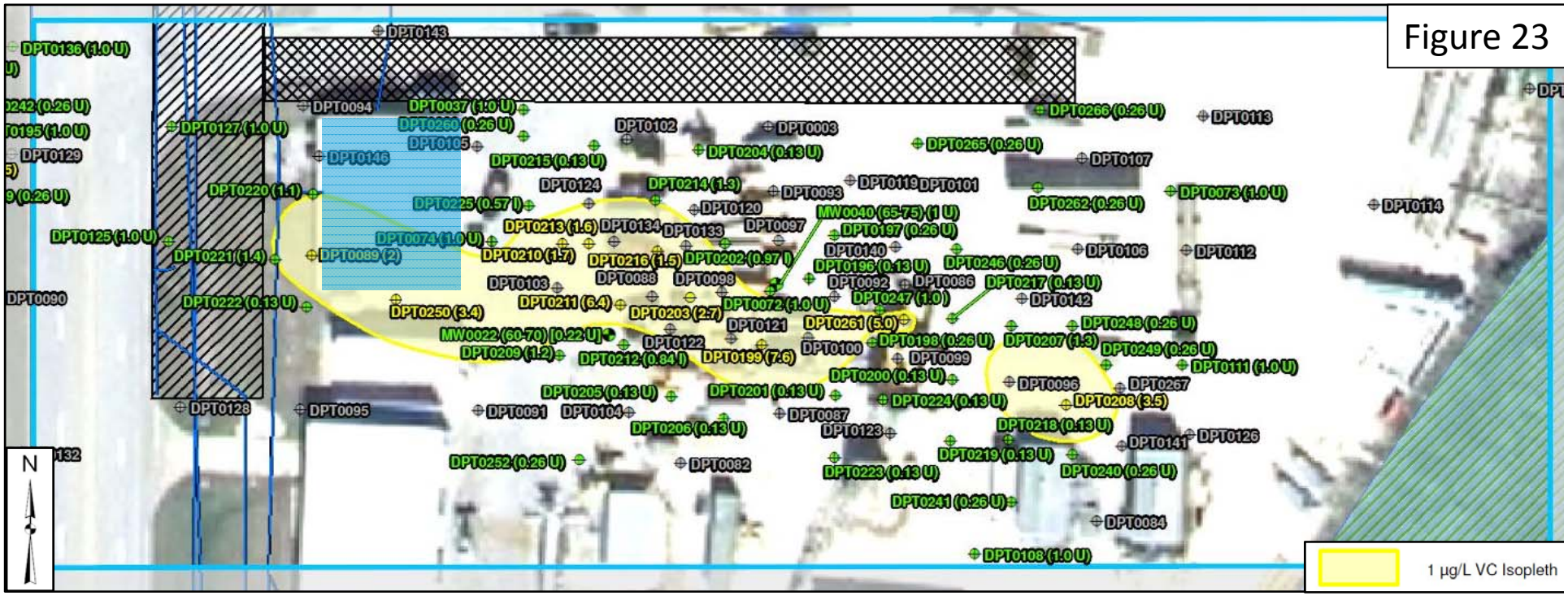
DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

VC concentration less than or equal to 1 µg/L

VC Greater than 56 ft BLS

Figure 23



Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

VC concentration less than or equal to 1 µg/L

Cross Section Plan View

CVOC Cross Section

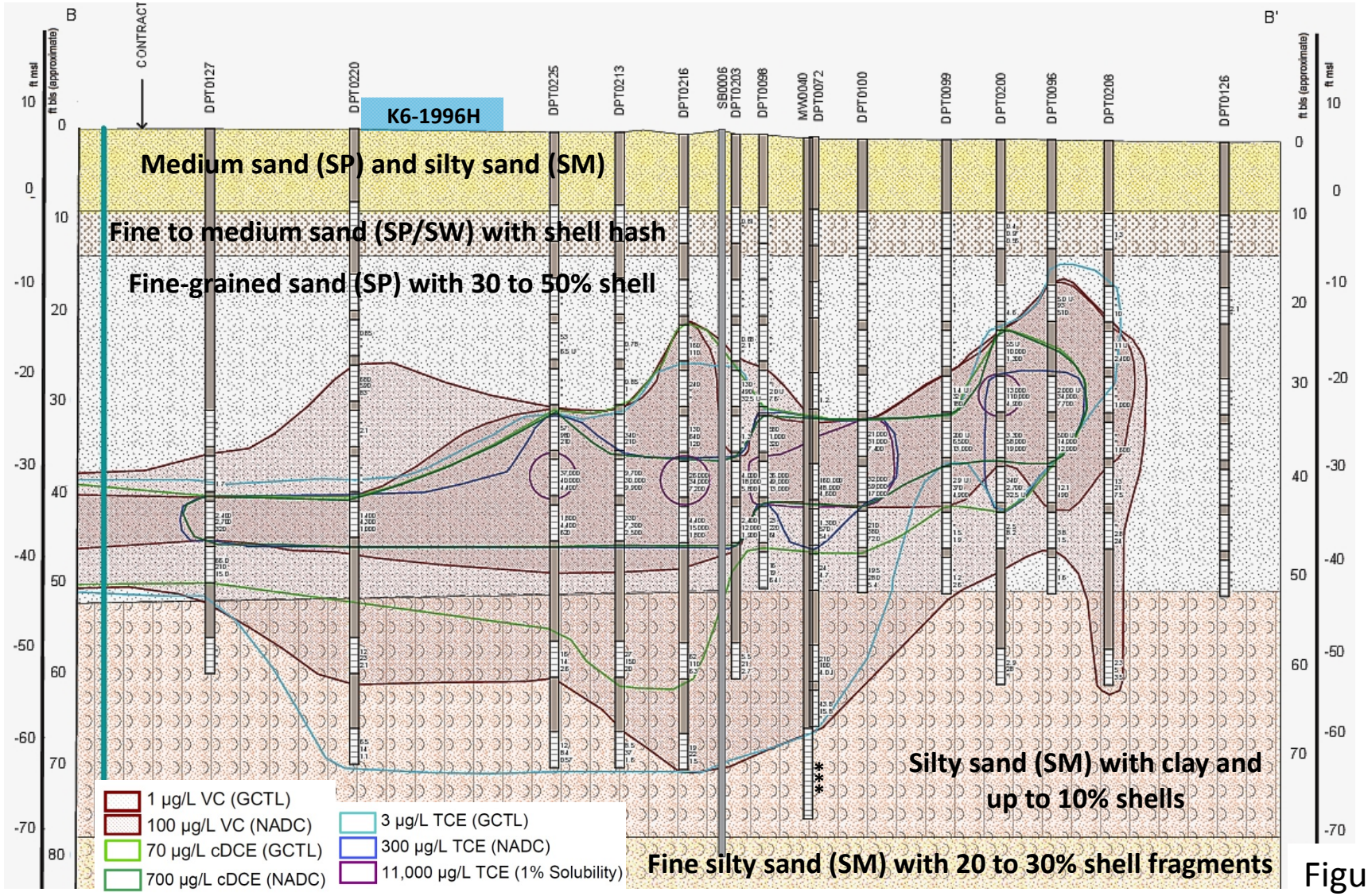


Figure 24

View 4dim EVS Files

Note: In the EVS model, ½ detection limit was used for ND values.

Response to Comments

TT Comment #4: Slide 41 (EVS) – When viewing the plume intervals, it is difficult to interpret internal zones (e.g., HS and SZ) due to the large thickness of data points. Suggest minimizing or showing as a discrete point within the middle of the sample interval. Review of the SZ in EVS was not completed due to this interference. Additionally, the deep interval bottom does not appear to be vertically delineated via EVS visual inspection.

Response: The EVS models were revised several times with this concern in mind. The EVS model was provided for each COC with the focus on HS1 area only, and then with the entire site shown. The locations with concentrations<GCTL were made transparent to make the area with high concentrations easier to view. We do not feel it is necessary to revise the EVS model. Additionally, the SZ was delineated with a permanent deep well (MW40) near the highest observed TCE concentrations at the site.

Supplemental Assessment/ Delineation Summary

- Impacts generally from 8 to 50 ft BLS
- Max concentrations (µg/L)
  - TCE = 160,000 (DPT72, 36 to 40 ft BLS)
  - cDCE = 110,000 L (DPT200, 26 to 30 ft BLS)
    - L indicates the value exceeded the calibration range
  - VC = 19,000 (DPT200, 31 to 35 ft BLS)
- SZ contaminant mass is mainly 30 to 46 ft BLS (60% of mass in that zone within 36 to 40 ft BLS)
- Lithology
  - primarily sand until ~45 to 50 ft BLS (based on visual observations, MIP, and DPT data)
  - below ~ 45 to 50 ft BLS, lithology is silty sand, with varying amounts of clay (semi-confining layer)
- MW40 installed to evaluate potential dragdown in source area DPTs and results confirmed vertical delineation

Contaminant Mass Evaluation

Constituent	Depth Interval (ft)	Average Concentration (µg/L)	Pore Volume (L)	Equilibrium Soil Conc. (mg/kg)	Dissolved Mass (lbs)	Sorbed Mass (lbs)	Total Mass (lbs)
TCE	0 to 16	5.4	7.87E+04	0.003	0.001	0.003	0.004
	16 to 30	40	8.50E+05	0.02	0.07	0.2	0.3
	30 to 46	251	2.79E+06	0.1	1.5	4.7	6.3
	46 to 56	10	8.28E+05	0.005	0.02	0.06	0.08
	>56	7.2	1.58E+06	0.003	0.03	0.08	0.1
	Total				**2**	**5**	**7**
cDCE	0 to 16	246	3.21E+04	0.03	0.02	0.01	0.03
	16 to 30	1,474	4.83E+05	0.2	1.6	1.3	2.9
	30 to 46	2,125	1.31E+06	0.3	6.1	5.2	11.3
	46 to 56	230	1.68E+05	0.03	0.09	0.07	0.2
	>56	108	4.51E+04	0.01	0.01	0.01	0.02
	Total				**8**	**7**	**15**
VC	0 to 16	6.5	1.06E+06	0.0005	0.02	0.007	0.02
	16 to 30	79	3.05E+06	0.006	0.5	0.3	0.8
	30 to 46	212	5.75E+06	0.02	2.7	1.3	4.0
	46 to 56	12	2.44E+06	0.001	0.06	0.03	0.09
	>56	2.4	5.44E+05	0.0002	0.003	0.001	0.004
	Total				**4**	**2**	**6**
						Total Mass	**30***

Notes:
1. Pore volume is estimated via EVS.
2. Soil density assumed to be 100 lb/ft3.
3. Foc assumed to be 0.003 which was taken from estimate provided by Tetra tech in Step 1 ADP for Hot Spot 2 for a sand with shell.
4. Koc data calculated from Sawyer, McCarty and Parkin, 5th Edition (2002); TCE = 165.7 L/kg, cDCE = 45.6 L/kg and VC = 26.3 L/kg.
5. Calculations do not consider potential DNAPL mass.

*Rounded to nearest tens of lbs.

Contaminant Mass Evaluation

Plume	Dissolved (lbs)	Sorbed (lbs)	Total (lbs)	% of Total Mass
LCP	1	1	2	7%
HCP	5	5	10	33%
HS	8	8	16	53%
Total	**14**	**14**	**30***	

TCE	Dissolved (lbs)	Sorbed (lbs)	Total (lbs)	% of Total Mass
LCP	0.2	0.8	1.0	15%
HCP	0.7	2.1	2.8	41%
HS	0.6	1.7	2.3	33%
SZ	0.2	0.6	0.8	12%
Total	**2**	**5**	**7**	

Source Zone:

- Defined by DNAPL threshold for TCE of 11,000 µg/L
- Covers ≈ 0.04 acres

Notes:
1. Pore volume is estimated via EVS.
2. Soil density assumed to be 100 lb/ft3.
3. Foc assumed to be 0.003 which was taken from estimate provided by Tetra tech in Step 1 ADP for Hot Spot 2 for a sand with shell.
4. Koc data calculated from Sawyer, McCarty and Parkin, 5th Edition (2002); TCE = 165.7 L/kg, cDCE = 45.6 L/kg and VC = 26.3 L/kg.
5. Calculations do not consider potential DNAPL mass.

*Rounded to nearest tens of lbs.

Table 1. Mass Calculations

	Average Concentration (µg/L)	Source of Average Concentration	Area (ft^2)	Thickness (ft)	Pore Volume (L)	Dissolved Mass (lbs)	Equilibrium Soil Concentration (mg/kg)	Sorbed Mass (lbs)	Total Mass (lbs)
300 µg/L > TCE > 3 µg/L	52	Hand Calculated	34,412	25	6.09E+06	0.7	0.02	2.1	2.8
	27	EVS Estimate	---	---	4.17E+06	0.2	0.01	0.8	1.0
3,000 µg/L > TCE > 300 µg/L	1,314	Hand Calculated	17,860	10	1.26E+06	3.7	0.63	11.3	15
	995	EVS Estimate	---	---	3.12E+05	0.7	0.48	2.1	2.8
11,000 µg/L > TCE > 3,000 µg/L	5,947	Hand Calculated	5,663	10	4.01E+05	5.3	2.9	16.2	21
	5,047	EVS Estimate	---	---	5.01E+04	0.6	2.4	1.7	2.3
TCE > 11,000 µg/L	46,750	Hand Calculated	1,742	5	6.17E+04	6.4	22	19.5	26
	19,701	EVS Estimate	---	---	4.45E+03	0.2	9.5	0.6	0.8
					Total Dissolved Mass	**1.7 to 16 lbs**	**Total Sorbed Mass**	**5.2 to 49 lbs**	
							Total TCE Mass	**6.9 to 65 lbs**	
700 µg/L > cDCE > 70 µg/L	236	Hand Calculated	31,799	25	5.63E+06	2.9	0.03	2.5	5.4
	246	EVS Estimate	---	---	1.24E+06	0.7	0.03	0.6	1.2
7,000 µg/L > cDCE > 700 µg/L	3,153	Hand Calculated	24,829	20	3.52E+06	24	0.4	21	45
	2,184	EVS Estimate	---	---	5.81E+05	2.8	0.3	2.4	5.2
cDCE > 7,000 µg/L	26,443	Hand Calculated	10,019	10	7.09E+05	41	3.5	35	76
	14,386	EVS Estimate	---	---	1.36E+05	4.3	1.9	3.7	8.0
					Total Dissolved Mass	**7.8 to 69 lbs**	**Total Sorbed Mass**	**6.6 to 58 lbs**	
							Total cDCE Mass	**14 to 127 lbs**	
100 µg/L > VC > 1 µg/L	18	Hand Calculated	86,249	30	1.83E+07	0.7	0.001	0.3	1.1
	10	EVS Estimate	---	---	1.18E+07	0.2	0.001	0.1	0.4
1,000 µg/L> VC > 100 µg/L	387	Hand Calculated	33,977	20	4.81E+06	4.1	0.03	2.0	6.1
	321	EVS Estimate	---	---	1.13E+06	0.8	0.02	0.4	1.2
VC > 1,000 µg/L	3,672	Hand Calculated	18,731	15	1.99E+06	16	0.28	7.8	24
	2,375	EVS Estimate	---	---	5.99E+05	3.1	0.18	1.5	4.7
					Total Dissolved Mass	**4.2 to 21 lbs**	**Total Sorbed Mass**	**2 to 10 lbs**	
							Total VC Mass	**6.2 to 31.1 lbs**	
							Total Mass	**27 to 223 lbs**	

Notes:

1. Pore volume for EVS calculations was estimated via EVS and for the hand calculations was estimated using area and depth provided assuming a porosity of 0.25.
2. Soil density assumed to be 100 lb/ft^3.
3. Foc assumed to be 0.003 which was taken from estimate provided by Tetra tech in Step 1 ADP for Hot Spot 2 for a sand with shell.
4. Koc data calculated from Sawyer, McCarty and Parkin, 5th Edition (2002); TCE = 165.7 L/kg, cDCE = 45.6 L/kg and VC = 26.3 L/kg.

Response to Comments

TT Comment #5: Slide 43/44 – TT does not agree with the methodology used for the mass calculation and the interpretation of the CSM. The mass is also not in agreement to the previous Step 1A EE. Applying an average concentration over the entirety of the plume area and not within specific isoconcentration intervals does not seem appropriate. The averaging methods used appear to have resulted in a misrepresentation of an average concentration and mass that is skewed low. Based on the information provided within the Step 1 EE, we would anticipate the TCE mass to be higher. Please revisit the mass calculation and revise the Part B technology screening as a result of the revision, where appropriate.

Response: The mass calculation was performed using two different methods, both of which used the average concentrations for the specific isoconcentrations (e.g., NADC >COC>GCTL, 10XNADC>COC>NADC). One was performed by depth interval and one for the overall plume (as concentric rings not averaged over the entirety of the plume). The average concentrations presented were calculated by hand and by EVS. The mass calculations consistently documented a similar mass estimate within the same order of magnitude. We believe the multiple approaches used and similarity in results provides a reasonable estimate of mass. No revisions are warranted.

Response to Comments

TT Comment #1B: Slide 58 – Given the suspected under allocation of mass at CRHE, we do not concur to the Source Zone remedial technologies retained until the contaminant mass calculation and distribution is revised and redistributed to the team.

Response: See previous response, additional information was provided regarding the mass calculations. We believe that the information presented is adequate to make a decision regarding retained remedial technologies.

Response to Comments

Jacobs-CORE Comment #5: Slides 43/44 – Both slides note that DNAPL mass was not considered in estimating contaminant mass. What is the rationale for excluding DNAPL from the mass estimate? Consider developing mass estimates for the SZ and HS independently (including DNAPL mass), then adding those to the gross average of the remaining HCP and LCP.

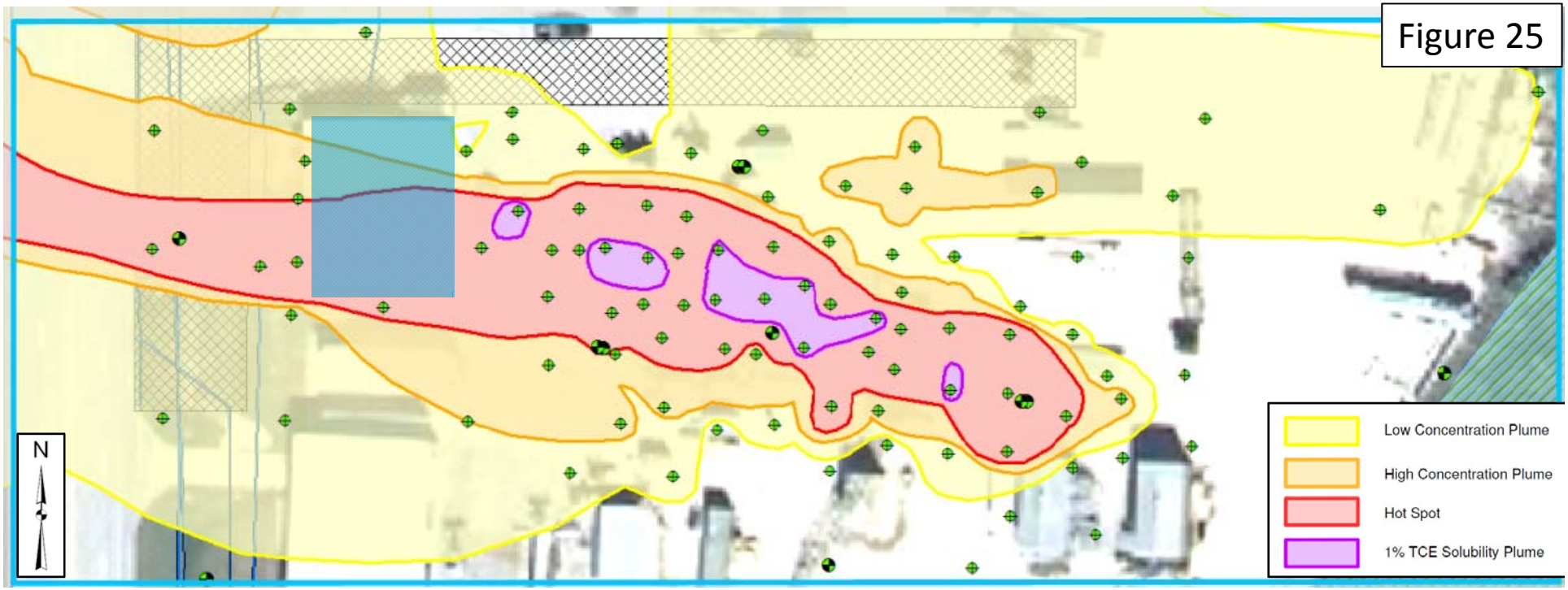
Response: The note was intended to indicate that a specific quantity of DNAPL product at 12.2 lb/gallon density was not considered to occupy some assumed fraction of pore spaces over some assumed area and assumed thickness. We considered the sorbed mass partitioned fraction to account for DNAPL (ganglia and/or limited sorbed form present). Estimating DNAPL mass at a site is difficult, even with high resolution gw sampling data. If it is assumed that DNAPL occupies 0.01 to 0.1% of pore space (of 1% solubility area), there would be ~0.45 to 4.5 gallons of TCE DNAPL, which is ~5.5 to 55 lbs of DNAPL. Regardless of absence/presence and/or form of DNAPL, the overall mass estimate provides a reasonable order of magnitude estimate of mass likely present in HS1.

Potential Treatment Areas

- SZ (1% TCE solubility)
  - 0.04 acres
  - Represents about 1 to 26 lbs of total mass
  - ~4 to 12% of total mass
- CVOCs > 10xNADC
  - 0.43 acres
  - Represents about 16 to 147 lbs of total mass
  - ~59 to 66% of total mass
- Max treatment depth of 50 ft BLS
  - 97% of mass above this depth
  - semi-confining layer at this depth

Overall Hot Spot 1 Area

Figure 25



Plume Within HS1	Area (acres)
LCP (>GCTL)	1.99
HCP (>NADC)	0.78
Hot Spot (>10xNADC)	0.43
SZ (> 11,000 µg/L TCE; 1% solubility)	0.04

Test Consensus - Step 1A

- Delineation in HS1 is complete for:
  - Source Zone (TCE greater than 11,000 µg/L)
  - Hot Spot (TCE and cDCE greater than 10xNADC)
  - HCP (concentration of TCE greater than NADC)
  - LCP (concentration of TCE greater than GCTL)
- cDCE HCP and LCP plumes are co-mingled with adjacent HS areas; delineation within HS1 is complete
- VC Hot Spot, HCP and LCP plumes are co-mingled with adjacent HS areas; delineation within HS1 is complete

Step 1 – Section B

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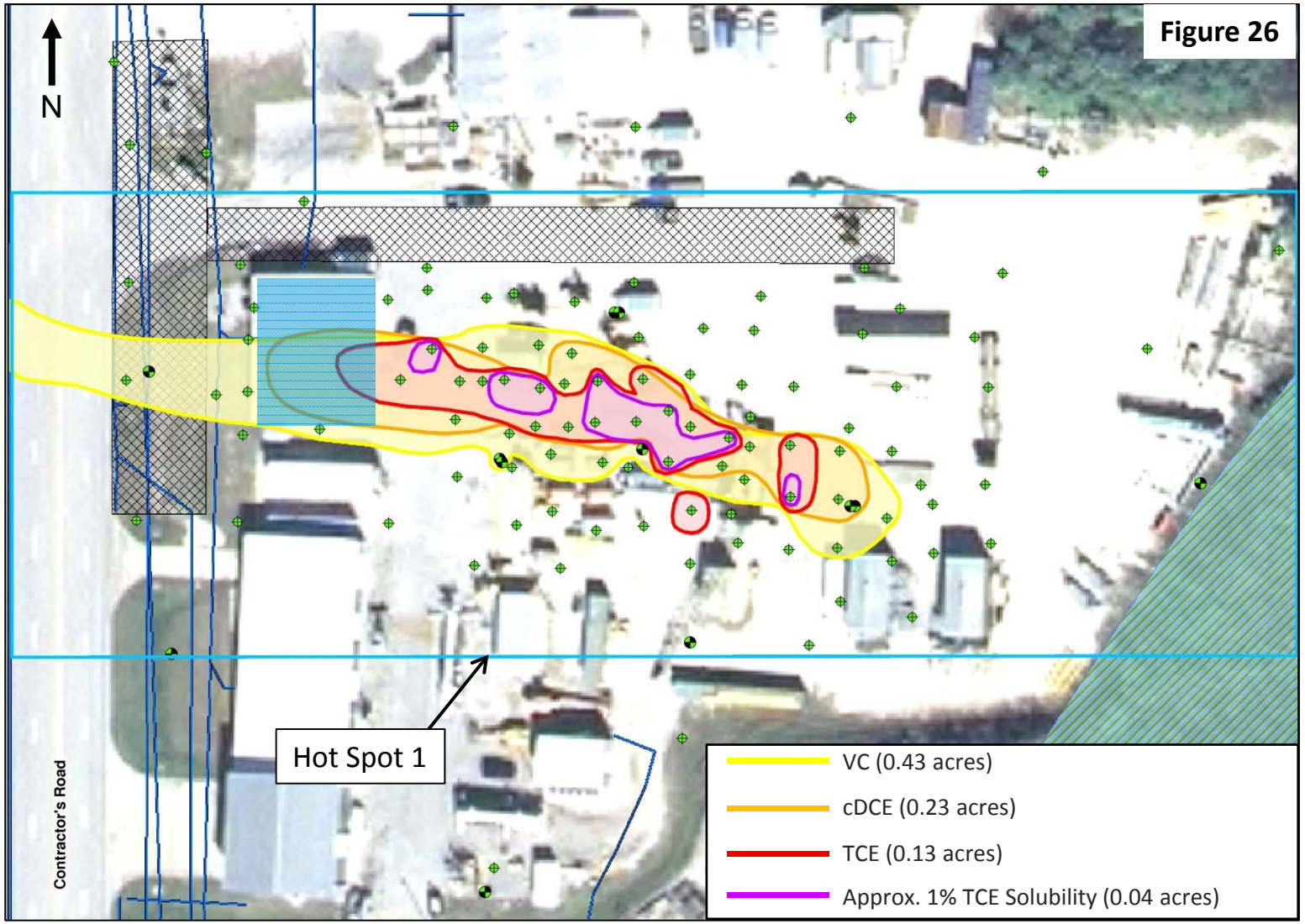
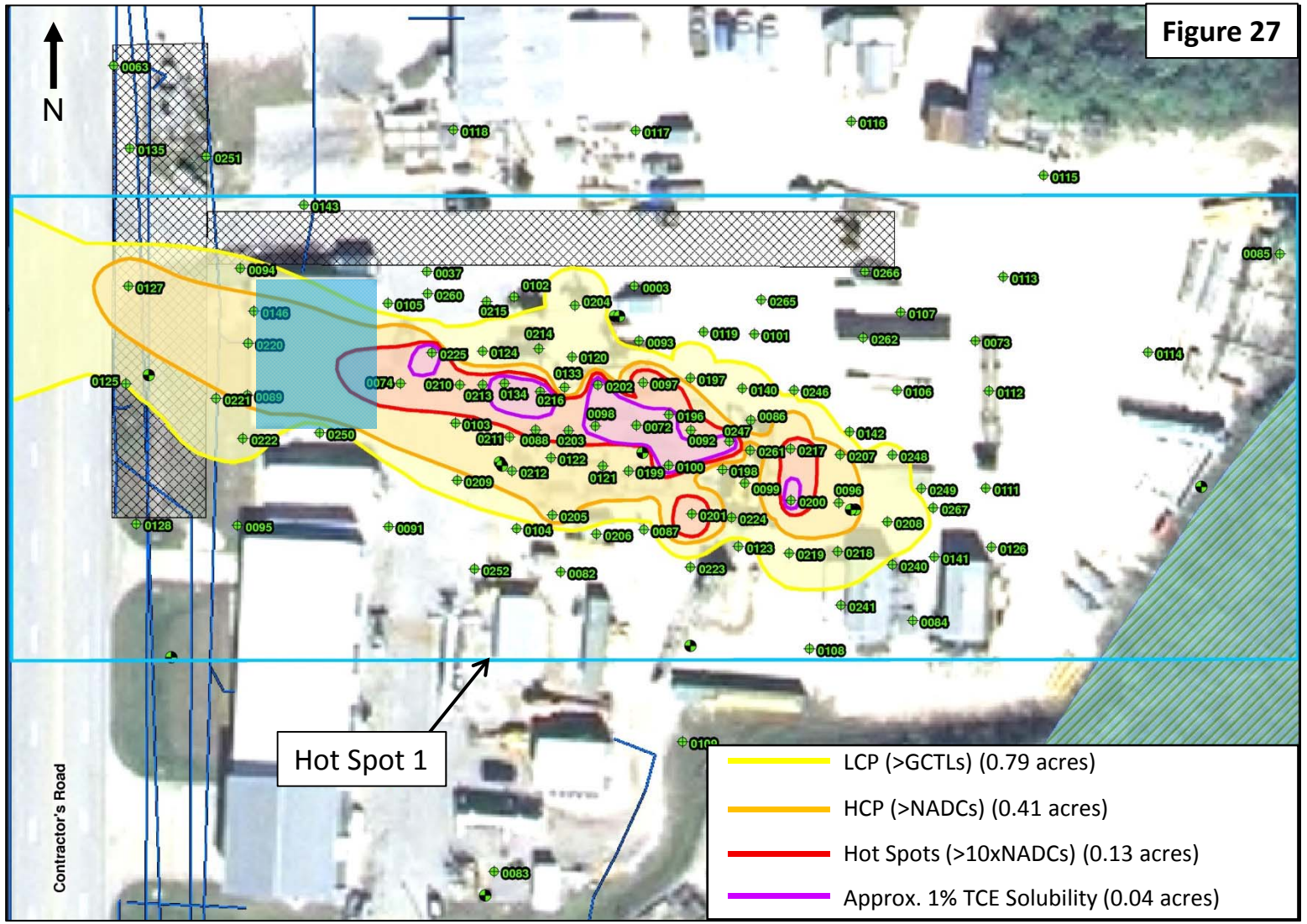
10x NADC Plumes Hot Spot 1



Overall TCE Plume Hot Spot 1

Figure 27



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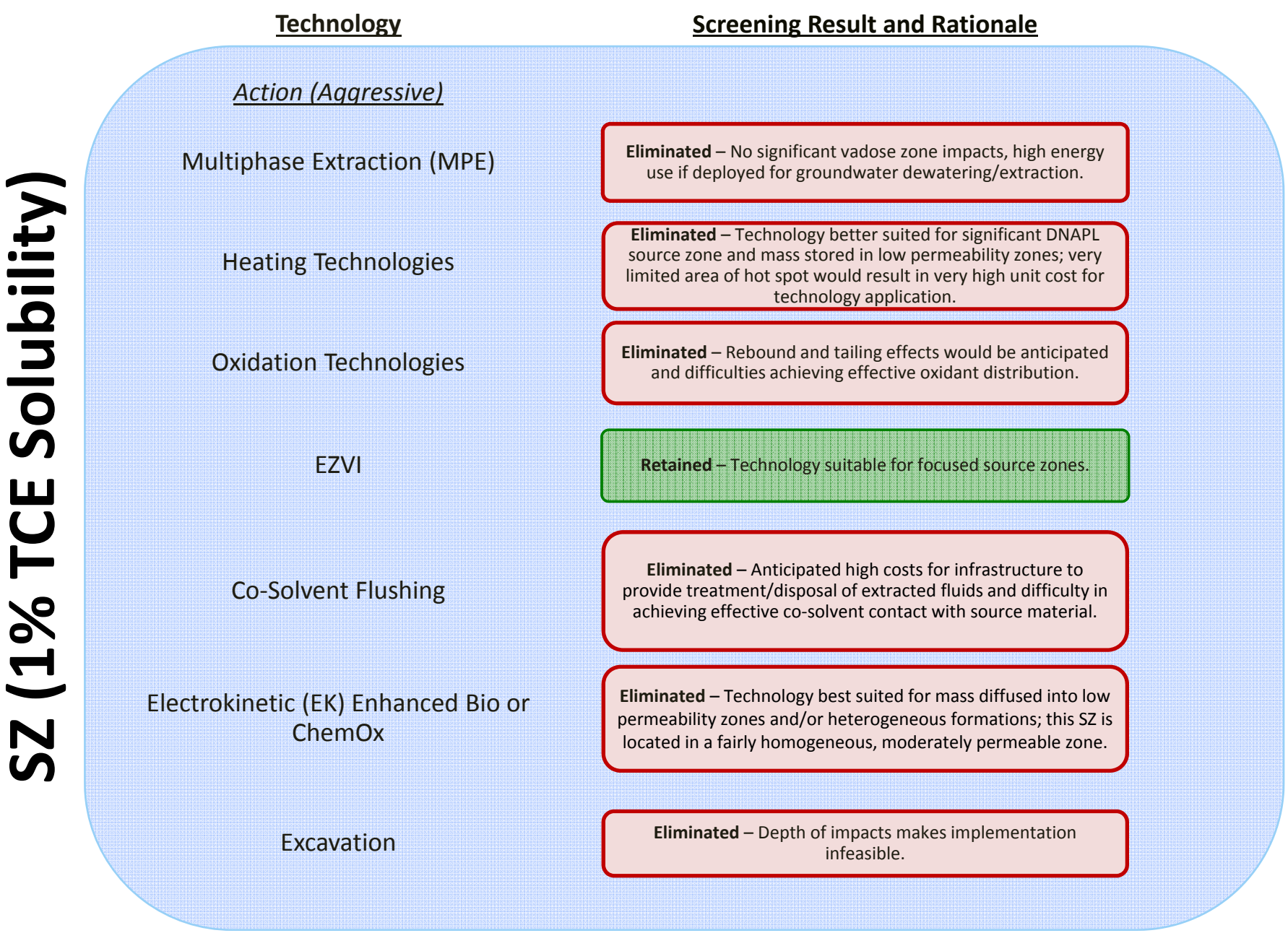
Review of Pertinent Site Conditions

- Buildings/site structures and large equipment storage
- Downgradient edge of 10x NADC is under building
- HS1 area is mostly gravel/concrete
- Impacts generally present from 8 to 50 ft BLS
  - SZ contaminant mass is mainly 36 to 40 ft BLS
- Lithology is primarily sand until approximately 45 to 50 ft BLS (based on visual observations, MIP, and DPT data)
  - Below approximately 45 to 50 ft BLS lithology is silty sand, with varying amounts of clay (semi-confining layer)

SZ (1% TCE Solubility)

Technology	Screening Result and Rationale
No Action	
No Further Action	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective.
Limited Action (Passive)	
Institutional Controls	**Retained** – Facility Land Use Controls warranted to prevent exposure to groundwater and/or installation of potable wells.
Monitoring (LTM, MNA)	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective unless in conjunction with another technology.
Action (Aggressive)	
GW Extraction (Hydraulic Containment, pump and treat)	**Conditionally Retained** – Only suitable for plume containment and/or as a component of another aggressive treatment technology.
Impermeable Barrier	**Eliminated** – Not feasible due to site features (buildings, roads and railroad tracks); multiple discrete areas.
Bioremediation (Bioaugmentation, Biostimulation)	**Retained** – Reductive dechlorination occurring at site based on cDCE and VC production, but would require additional data.
Large Diameter Auger (LDA) (solidification, steam, EZVI approaches)	**Eliminated** – Technology better suited for significant DNAPL source zone and mass stored in low permeability zones; based upon site features and very limited footprint of SZ impacts, will likely result in very high unit costs.
Air Sparge	**Retained** – Effective treatment above semi-confining layer (~50 ft BLS) for volatilization of CVOCs.


SZ (1% TCE Solubility)
Technology
Screening Result and Rationale
Action (Aggressive)
Multiphase Extraction (MPE)
Eliminated – No significant vadose zone impacts, high energy use if deployed for groundwater dewatering/extraction.
Heating Technologies
Eliminated – Technology better suited for significant DNAPL source zone and mass stored in low permeability zones; very limited area of hot spot would result in very high unit cost for technology application.
Oxidation Technologies
Eliminated – Rebound and tailing effects would be anticipated and difficulties achieving effective oxidant distribution.
EZVI
Retained – Technology suitable for focused source zones.
Co-Solvent Flushing
Eliminated – Anticipated high costs for infrastructure to provide treatment/disposal of extracted fluids and difficulty in achieving effective co-solvent contact with source material.
Electrokinetic (EK) Enhanced Bio or ChemOx
Eliminated – Technology best suited for mass diffused into low permeability zones and/or heterogeneous formations; this SZ is located in a fairly homogeneous, moderately permeable zone.
Excavation
Eliminated – Depth of impacts makes implementation infeasible.

Response to Comments

Jacobs-CORE Comment #1B: Slide 53 (SZ Technology Screening) – Regarding elimination of LDA as an alternative. True that the SZ area is small which could make it cost prohibitive for LDA, but this area is totally accessible and, considering performance of LDA projects locally that have shown >95% efficiency over time, it may be worth considering since the likelihood of enhanced effectiveness could out-weigh the negative aspect of a higher cost. At a minimum, it would be nice to understand costs associated with LDA compared to other technologies, especially considering the performance.

Response: We do not feel that LDA is an appropriate technology for this site based on the following: (i) the technology is better suited for source zones with significant DNAPL mass and mass stored in low permeability zones; (ii) access at the site is difficult due to buildings and storage of large pieces of equipment and conex boxes; and (iii) settling at the site after LDA implementation could result in damage to buildings or loss of storage area for the facility.

Response to Comments

Jacobs-CORE Comment #2B: Slide 53 (SZ Technology Screening) – AS Retained: It is evident that there is a low permeable zone somewhere around 40 ft bls which is possibly holding DNAPL. Will AS be able to effectively permeate through this zone and access the source mass that may be dispersed in diffusion limited zones? This has historically been an issue with sites that rebound following the use of pump and treat and air sparge technologies. If you have already compared the CRHE lithology to other sites where AS is effective and found that the CRHE lithology is favorable, a statement to that effect would be helpful. If not, the additional lithologic boring suggested above would be helpful, or consider whether a pilot test is needed.

Response: The lithology borings did not indicate any low permeability zone above ~50 ft BLS. We do believe that AS will effectively treat mass at this site if the system is installed and operated properly. Additional soil borings can be collected as part of the Step 3 EE to assure the sparge screens are set in the appropriate locations.

Hot Spot 1 (>10xNADCs)

Technology	Screening Result and Rationale
No Action	
No Further Action	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective.
Limited Action (Passive)	
Institutional Controls	**Retained** – Facility Land Use Controls warranted to prevent exposure to groundwater and/or installation of potable wells.
Monitoring (LTM, MNA)	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective unless in conjunction with another technology.
Action (Aggressive)	
GW Extraction (Hydraulic Containment, pump and treat)	**Conditionally Retained** – Only suitable for plume containment and/or as a component of another aggressive treatment technology.
Impermeable Barrier	**Eliminated** – Not feasible due to site features (buildings, roads and railroad tracks); multiple discrete areas.
Bioremediation (Bioaugmentation, Biostimulation)	**Retained** – Reductive dechlorination occurring at site based on cDCE and VC production, but would require additional data.
Large Diameter Auger (LDA) (solidification, steam, EZVI approaches)	**Eliminated** – Not feasible due to site features – buildings, roads and railroad tracks.
Air Sparge	**Retained** – Effective treatment above semi-confining layer (~50 ft BLS) for volatilization of CVOCs.

Hot Spot 1 (>10xNADCs)

Technology	Screening Result and Rationale
Action (Aggressive)	
Multiphase Extraction (MPE)	**Eliminated** – No significant vadose zone impacts, high energy use if deployed for groundwater dewatering/extraction.
Heating Technologies	**Eliminated** – Technology better suited for significant DNAPL source zone and mass stored in low permeability zones; very limited area of hot spot would result in very high unit cost for technology application.
Oxidation Technologies	**Eliminated** – Rebound and tailing effects would be anticipated and difficulties achieving effective oxidant distribution.
EZVI	**Eliminated** – Technology better suited for focused DNAPL source zones not dissolved CVOCs.
Co-Solvent Flushing	**Eliminated** – Technology better suited for focused DNAPL source zones.
Electrokinetic (EK) Enhanced Bio or ChemOx	**Eliminated** – Technology better suited for focused uniform distribution of e-donor, microbial culture, or oxidant in limited footprint areas with high level of heterogeneity and diffused mass/DNAPL in low permeability zones.
Excavation	**Eliminated** – Depth of impacts makes implementation infeasible.

Engineering Data Gaps

- Additional data to evaluate bioremediation
  - Sample four intermediate wells down plume centerline and across site
    - MW25 (25-35)
    - MW29 (40-50)
    - MW35 (40-50)
    - MW19I (35-45)
  - Analyze samples for the following parameters
    - MEEs, sulfate, sulfide
    - Dhc and vcrA
    - VOCs including Freon 113
    - 1,4-Dioxane
- Evaluate existing electric service for air sparging

Response to Comment

TT General Comment #7 Was 1,4-dioxane sampled at CRHE? If so, please include in ADP.

Response: Select site monitoring wells were sampled and analyzed for 1,4-dioxane in 1997. The sample results were all non-detect (500 U and 2,500 U µg/L), but with DLs>FDEP GCTL (3.2 µg/L). It is proposed that samples collected from wells that will be sampled to collect additional data to evaluate bioremediation (MW0025, MW0029, MW0035 and MW0019I), will be analyzed for 1,4-dioxane.

Engineering Data Gap Proposed Sampling Locations

Retained Technologies

SZ (>1% TCE solubility)

- Retained technology
  - Institutional controls
  - Bioremediation
  - Air sparging
  - EZVI
- Conditionally retained
  - Groundwater extraction in combination with bioremediation

Hot Spots (>10x NADC)

- Retained technology
  - Institutional controls
  - Bioremediation
  - Air sparging
- Conditionally retained
  - Groundwater extraction in combination with bioremediation

Air sparge and bioremediation are scalable to larger treatment areas

Response to Comments

Jacobs-CORE Comment: Slide 58 – Air Sparge and Bioremediation are listed as scalable to larger treatment areas. Please confirm that other combined technologies, such as EZVI and Bioremediation, will also be looked at for scaling to larger zones.

Response: EZVI was only recommended for evaluation in the area with TCE concentrations greater than 1% solubility. EZVI will not be considered for scaling to larger zones due to the elevated cost which would be anticipated in a larger area.

Path Forward/Test Consensus

- Proceed to Step 2
- Presumptive interim GW monitoring for LCP and HCP
- Separate evaluations for retained technologies
  - SZ (1% TCE solubility)
  - CVOCs > 10xNADC
- Test consensus
  - 1% solubility (11,000 µg/L) TCE as SZ
  - Technologies retained for evaluation in Step 2
  - Possibility to scale bioremediation and air sparging to larger treatment area

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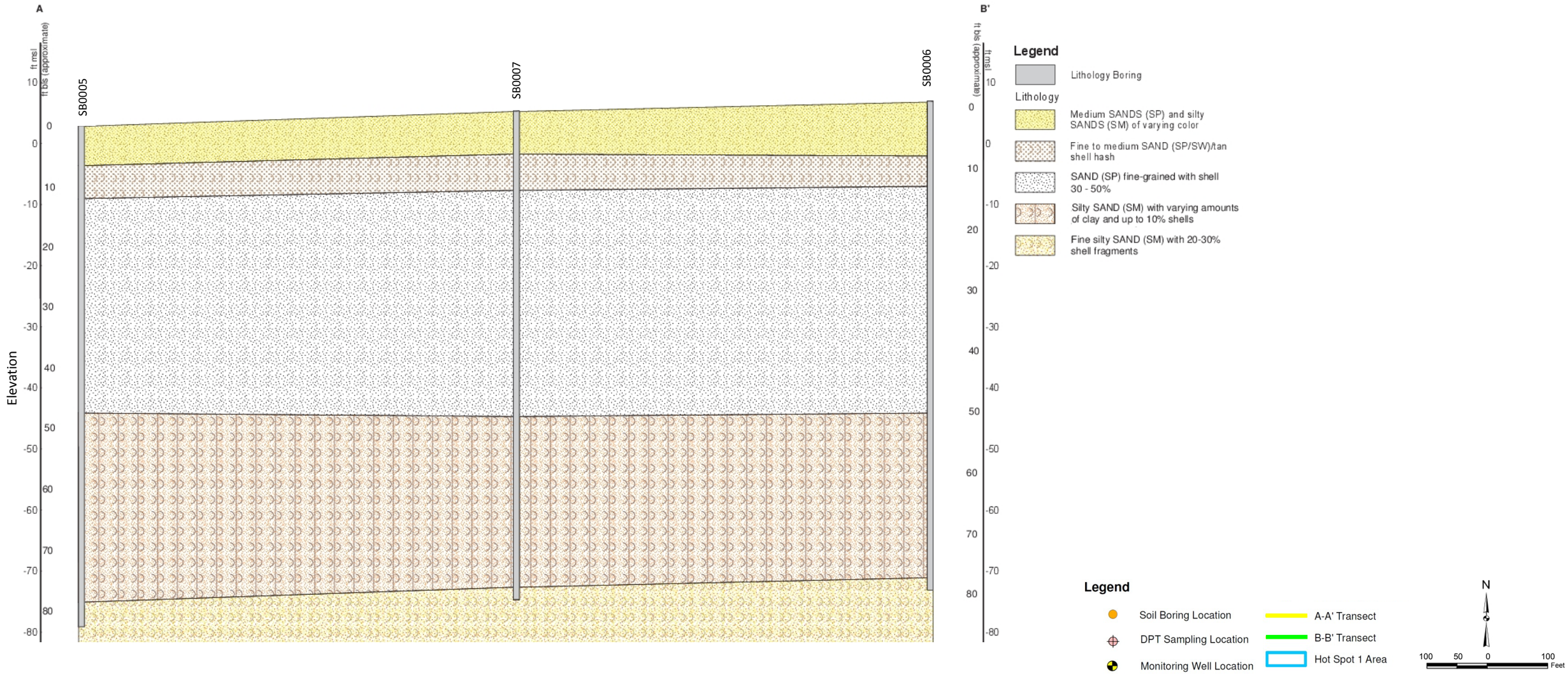


Notes:
1. ft indicate feet.
2. msl indicates mean sea level.
3. bls indicates below land surface.

Figure 1
Lithologic Cross Section A to A'

N

100 50 0 100

Feet

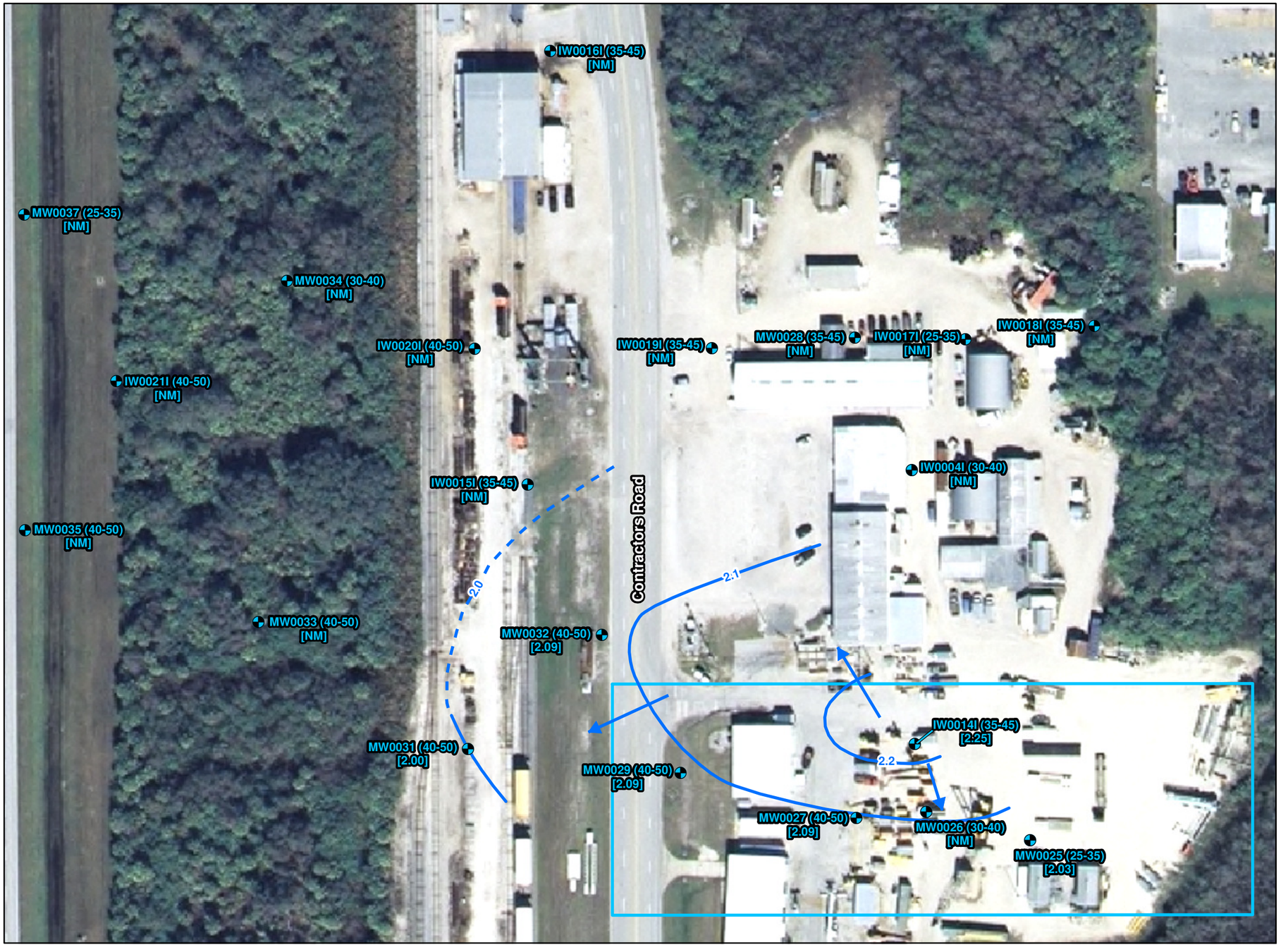
Legend

- Shallow Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction
- Hot Spot 1 Area

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.
3. NM indicates not measured.
4. Prefix for all sampling locations is "CRHE-".

Path: (Titusville-01\DATA) T:\0GIS\FR1681_CRHE\MXDs\AUG2013\Shallow_GW_elev_JULY2013.mxd 26 November 2013 JRB

Figure 2
Shallow Groundwater Elevation Contours - July 2013



N

100 50 0 100

Feet

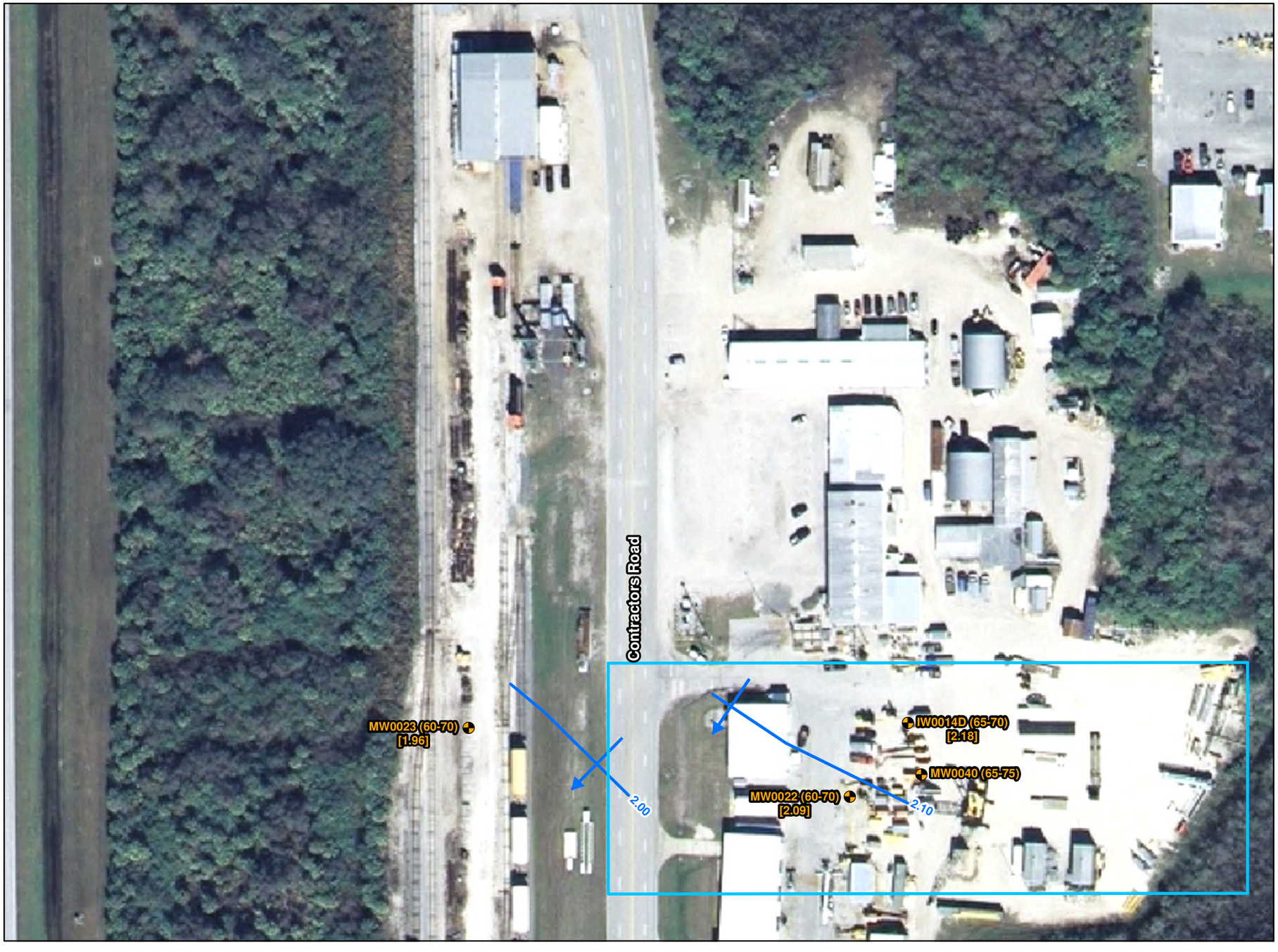
Legend

- Intermediate Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction
- Hot Spot 1 Area

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.
3. NM indicates not measured.
4. Prefix for all sampling locations is "CRHE-".

Path: (Titusville-01\DATA) T:\0GIS\FR1681_CRHE\MXDs\AUG2013\Int_GW_elev_JULY2013.mxd 26 November 2013 JRB

Figure 3
Intermediate Groundwater Elevation Contours - July 2013



N

100 50 0 100

Feet

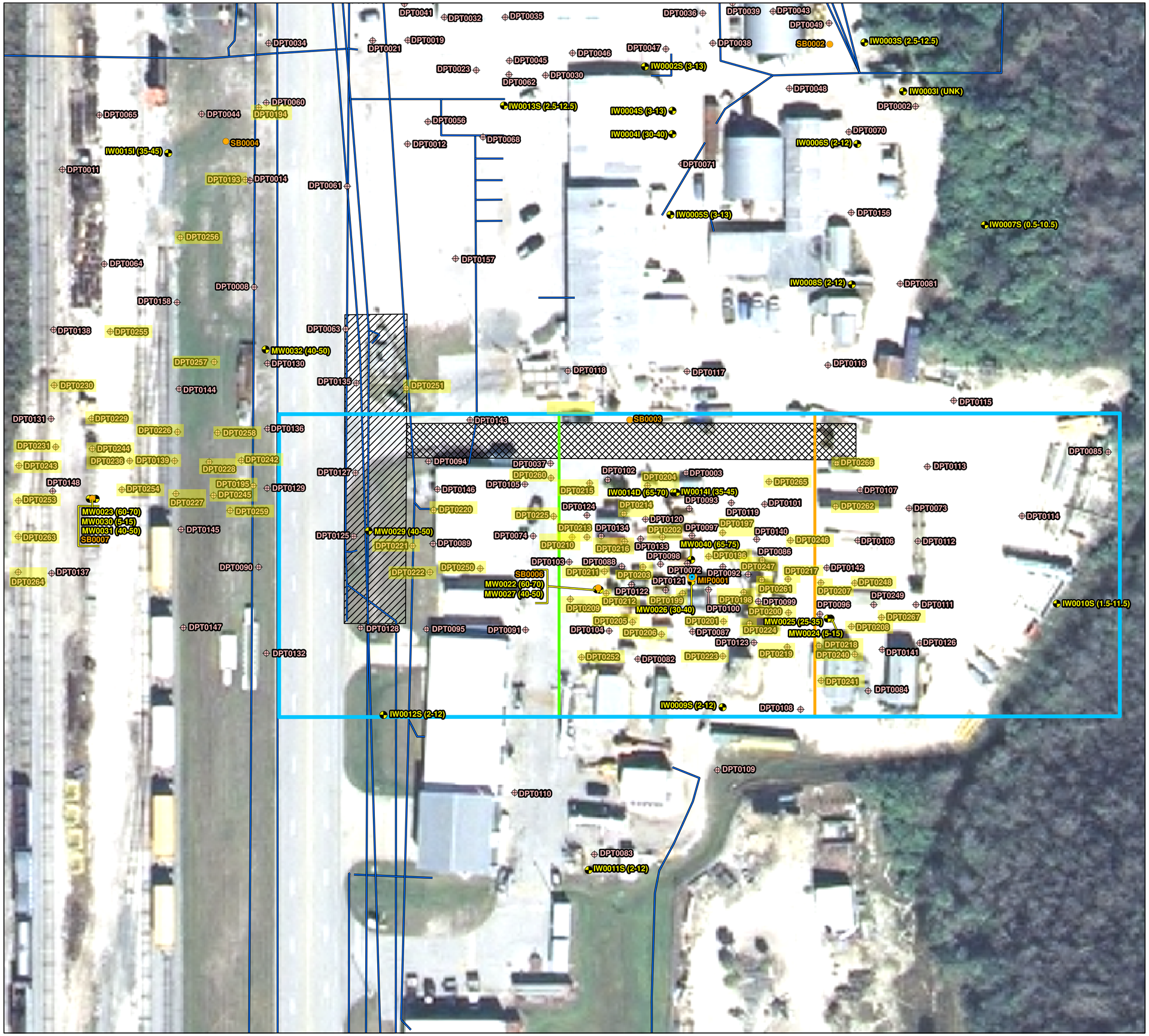
Legend

- Deep Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction
- Hot Spot 1 Area

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.
3. Prefix for all sampling locations is "CRHE-".

Path: (Titusville-01\DATA) T:\0GIS\FR1681_CRHE\MXDs\AUG2013\Deep_GW_elev_JULY2013.mxd 03 September 2013 JRB

Figure 4
Deep Groundwater Elevation Contours - July 2013



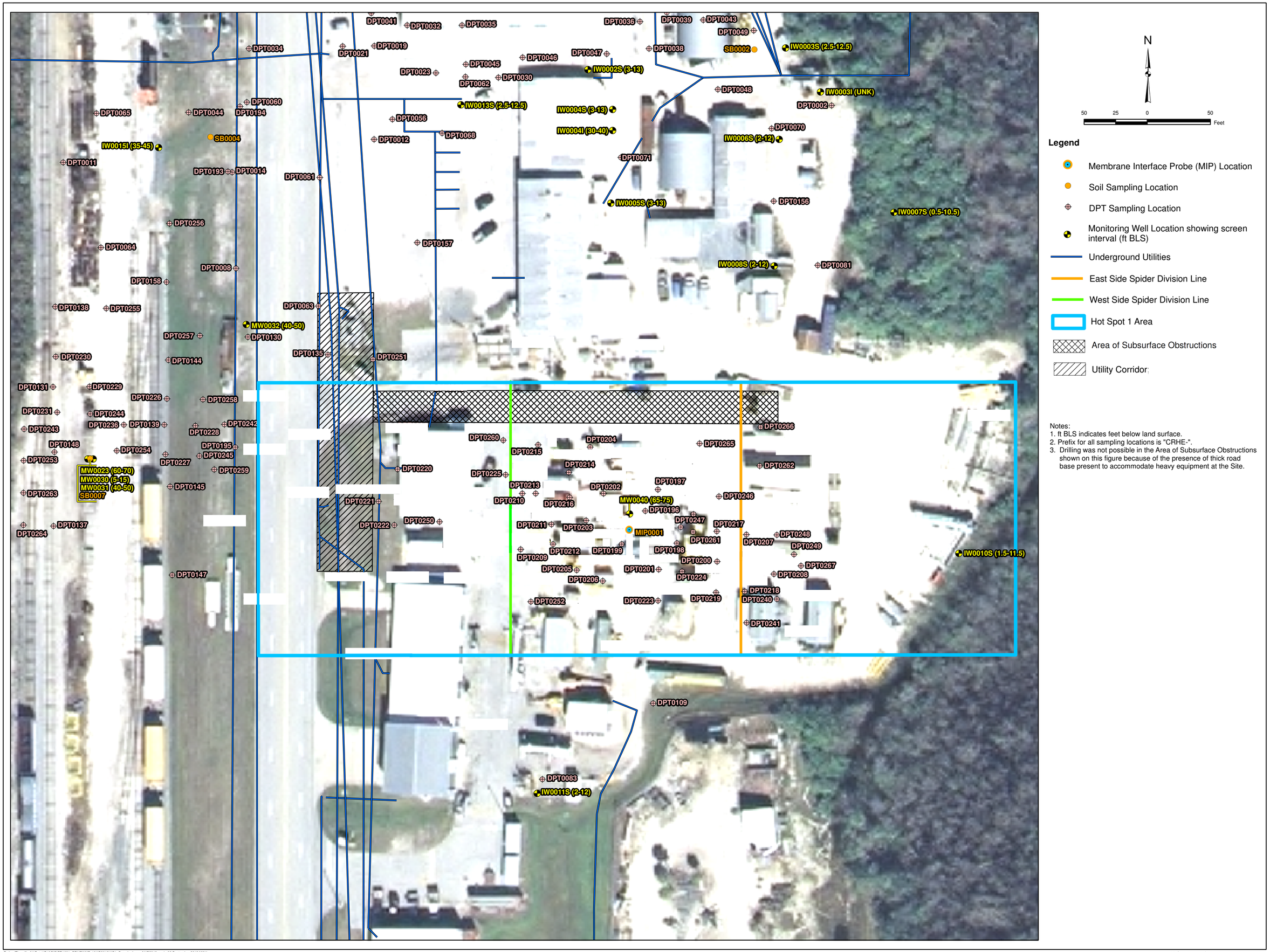
Legend

- Membrane Interface Probe (MIP) Location
- Soil Sampling Location
- DPT Sampling Location
- Monitoring Well Location showing screen interval (ft BLS)
- Underground Utilities
- East Side Spider Division Line
- West Side Spider Division Line
- Hot Spot 1 Area
- Area of Subsurface Obstructions
- Utility Corridor

Notes:
1. ft BLS indicates feet below land surface.
2. Prefix for all sampling locations is "CRHE-".
3. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Path: (\Tbusville-01\Data\P:\0GIS\FR1681_CRHE\MXDs\AUG2013\HS1_Sample_Locs_AUG2013.mxd 06 September 2013 MAH

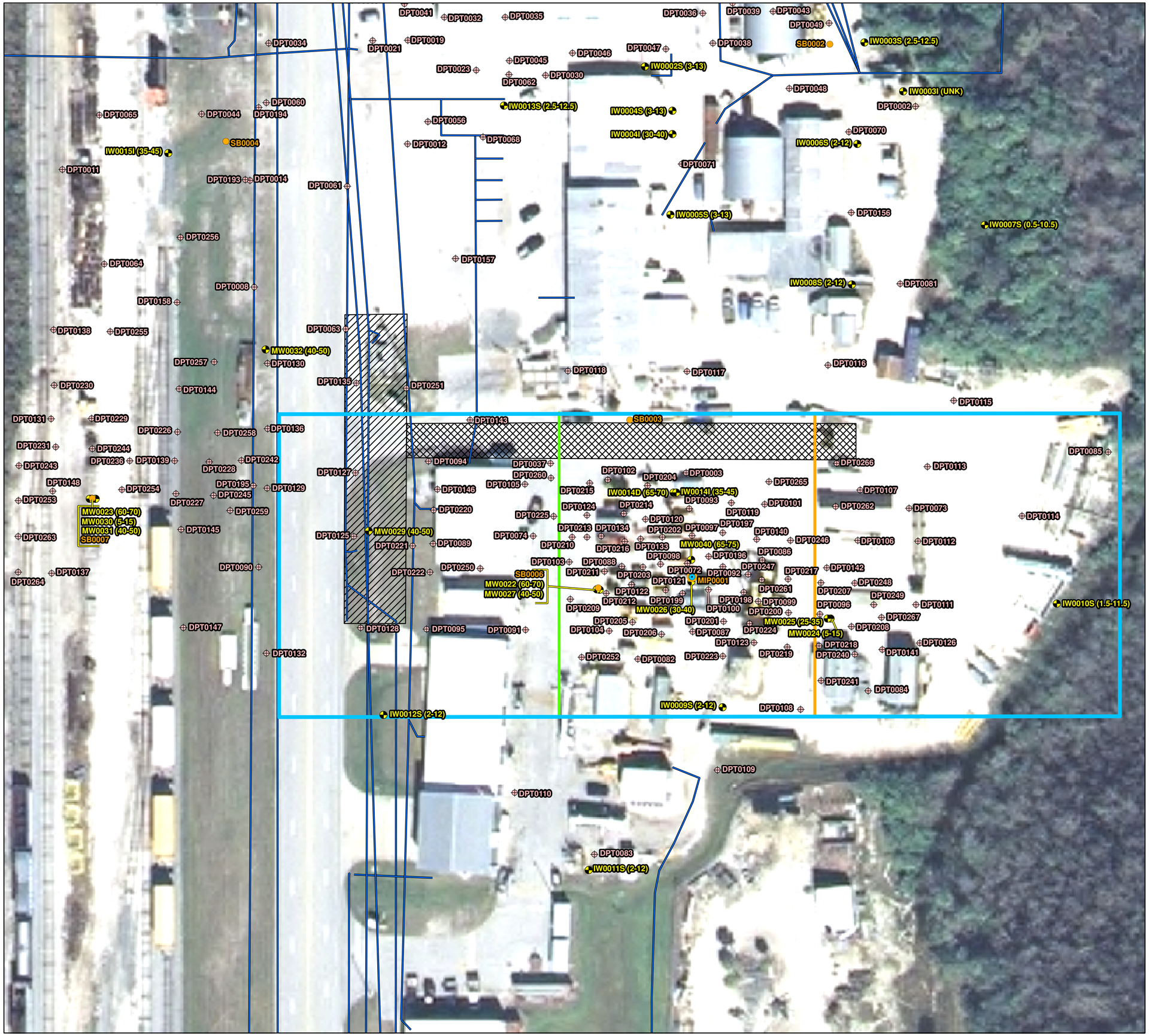
Figure 5
CRHE Hot Spot 1 Sample Locations



Notes:
1. ft BLS indicates feet below land surface.
2. Prefix for all sampling locations is "CRHE-".
3. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Path: (Titusville-01\Data\P:\0GIS\FR1681_CRHE\MXDs\AUG2013\HS1_Sample_Locs_AUG2013.mxd 06 September 2013 MAH

Figure 5
CRHE Hot Spot 1 Sample Locations



Notes:
1. ft BLS indicates feet below land surface.
2. Prefix for all sampling locations is "CRHE-".
3. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Path: (\\tusville-01\Data\P:\0GIS\FR1681_CRHE\MXDs\AUG2013\HS1_Sample_Locs_AUG2013.mxd 06 September 2013 MAH

Figure 5
CRHE Hot Spot 1 Sample Locations

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. I indicates reported value is between the method detection limit and the practical quantitation limit.
4. U indicates value was not detected above the method detection limit.
5. GCTL indicates Groundwater Cleanup Target Level.
6. NADC indicates Natural Attenuation Default Concentration.
7. Prefix for all sampling locations is "CRHE-".
8. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Screening Criteria			
Parameter	Abbreviation	GCTL	NADC
Tetrachloroethene	PCE	3	300
Trichloroethene	TCE	3	300
cis-1,2-Dichloroethene	cDCE	70	700
trans-1,2-Dichloroethene	tDCE	100	1,000
1,1-Dichloroethane	1,1-DCA	70	700
Vinyl Chloride	VC	1	100

DPT0143 (Oct-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
10/14/2010	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.9**
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.0**

DPT0037 (Aug-09)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
08/04/2009	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.8**
	28 to 28	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.6**
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	61 to 65	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0084 (May-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/01/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
03/02/2010	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	**4.7**	22	2.0	NA	**33.2**
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0105 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/17/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	12 to 16	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	21 to 25	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.4
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0260 (June-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/05/2013	16 to 20	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	21 to 25	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	26 to 30	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	41 to 45	0.23 U	0.19 U	0.44 I	0.29 U	NA	**1.9**
	56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0027 (Aug-10& Oct-12)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
08/06/2010	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.7**
	41 to 45	**52 U J**	**2,400**	**2,700**	**120**	NA	**320**
	46 to 50	2.6 U J	**66.0**	**210**	6.2	NA	**15.0**
10/05/2012	56 to 60	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0146 (Oct-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
10/12/2010	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.5**
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.1
	36 to 40	1.0 U	1.0 U	7.1	4.3	NA	**18.4**
	41 to 45	**24 U J**	**2,500**	**1,900**	100	NA	**330**
	46 to 50	1.0 U	1.8	55.4	3.0	NA	**40.4**

DPT0220 (Mar-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/27/2013	8 to 12	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	16 to 20	0.16 U	0.22 U	0.2 U	1.5	NA	0.13 U
	21 to 25	0.16 U	0.85 I	0.2 U	0.28 U	NA	0.13 U
	26 to 30	**8 U**	**480**	**590**	76	NA	**83**
	31 to 35	0.16 U	0.22 U	2.1	0.28 U	NA	0.13 U
	36 to 40	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	41 to 45	**8 U**	**1,400**	**1,300**	**100**	NA	**1,000**
	56 to 60	0.16 U	**12**	23	0.28 U	NA	**2.1**
	61 to 70	0.16 U	**4.5**	7.4	1.5	NA	1.1

DPT0074 (Feb-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
02/03/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	**530 U**	**8,100**	**18,000**	**500 U**	NA	**7,200**
	41 to 45	**100 U**	**2,900**	**4,000**	100 U	NA	**1,300**
	46 to 50	1.0 U	**4.2**	3.6	1.0 U	NA	1.0 U
	56 to 60	1.0 U	1.0 U	2.5	2.9	1.0 U	NA	1.0 U
	61 to 65	1.0 U	1.7	2.0	1.0 U	NA	1.0 U

DPT0225 (Mar-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/29/2013	8 to 12	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	16 to 20	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	21 to 25	**8 U**	**53**	10 U	14 U	NA	**6.2 U**
	26 to 30	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	31 to 35	**16 U**	**57 I**	**980**	87 I	NA	**210**
	36 to 40	**160 U**	**37,000**	**45,000**	**800 U**	NA	**4,400**
	41 to 45	**40 U**	**1,800**	**4,400**	70 U	NA	**630**
	56 to 60	0.16 U	**16**	14	1.7	NA	**2.6**
	60 to 70	0.16 U	**12**	8.4	0.28 U	NA	0.57 I

MW0029

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
Mar-12	40 to 50	0.11 U	**140**	**420**	13	0.13 U	**100**

DPT0125 (Aug-10 & Oct-12)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
08/05/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	**2.1**
	41 to 45	**11 U J**	**6.6 U J**	**1,300**	24.0	NA	**1,710**
	46 to 50	1.0 U	1.0 U	7.0	1.7	NA	**35.8**
10/16/2012	56 to 60	1.0 U	1.0 U	5.1	1.0 U	NA	1.0 U

DPT0221 (Mar-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/28/2013	8 to 12	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	16 to 20	0.16 U	**9.6**	21	0.28 U	NA	0.13 U
	21 to 25	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	26 to 30	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	31 to 35	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	36 to 40	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U
	41 to 45	**8 U**	**11 U**	**1,500**	14 U	NA	**1,300**
	56 to 60	0.16 U	0.22 U	4.5	0.28 U	NA	1.4

DPT0089 (Feb-10 & Oct-12)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
02/26/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.3	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	7.8	1.0 U	NA	**180**
	41 to 45	**200 U**	**520**	**6,200**	200 U	NA	**8,800**
	46 to 50	1.0 U	1.1	15.7	1.2	NA	**37.1**
10/16/2012	56 to 60	1.0 U	1.0 U	4.7	1.0 U	NA	**2.0**

DPT0250 (May-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
05/23/2013	8 to 12	0.23 U	0.19 U	0.40 I	0.29 U	NA	0.26 U
	16 to 20	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	21 to 25	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	26 to 30	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	31 to 35	0.23 U	0.19 U	0.66 I	0.29 U	NA	**2.3**
	36 to 40	0.23 U	0.19 U	0.22 U	0.47 I	NA	**23.8**
	41 to 45	0.23 U	1.1	**2,100**	58.8	NA	**1,200**
	56 to 60	0.23 U	0.19 U	6.8	0.29 U	NA	**3.4**

DPT0128 (Aug-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
08/06/2010	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	**3.1**

DPT0095 (Mar-10)

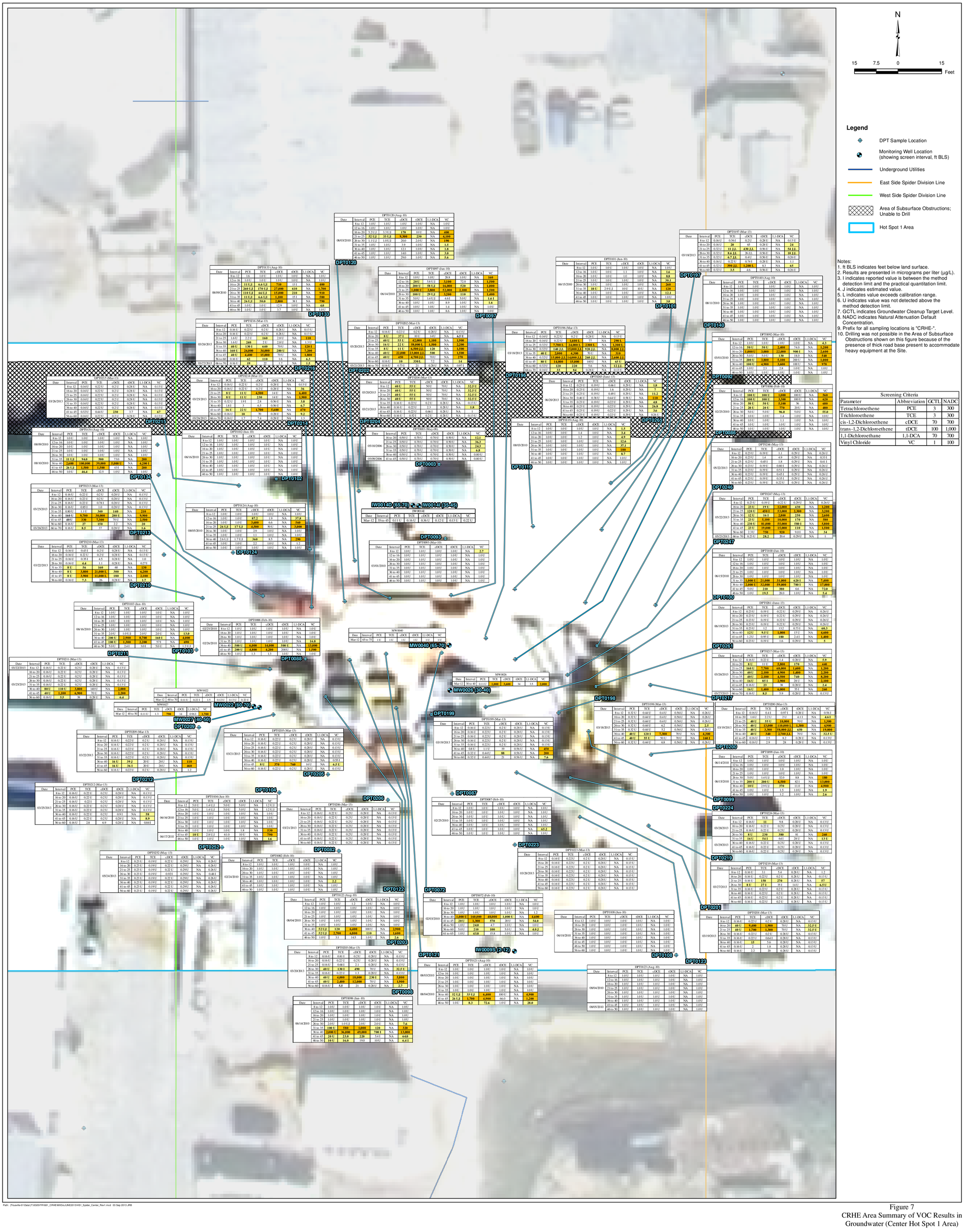
Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/02/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	**2.6**
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	**13.3**

DPT0091 (Mar-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/01/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.1	NA	**100**
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	**11.2**

Path: (Titusville-01Data)T:\GIS\FIR\681_CRHE\MXDs\JUNE2013\HS1_Spider_West.mxd 03 September 2013 JRB

Figure 6
CRHE Area Summary of VOC Results in Groundwater (West Hot Spot 1 Area)


N
15 7.5 0 15
Feet
Legend
DPT Sample Location
Monitoring Well Location (showing screen interval, ft BLS)
Underground Utilities
East Side Spider Division Line
West Side Spider Division Line
Area of Subsurface Obstructions; Unable to Drill
Hot Spot 1 Area
Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. I indicates reported value is between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. L indicates value exceeds calibration range.
6. U indicates value was not detected above the method detection limit.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.
Screening Criteria
Parameter | Abbreviation | GCTL | NADC
Tetrachloroethene | PCE | 3 | 300
Trichloroethene | TCE | 3 | 300
cis-1,2-Dichloroethene | cDCE | 70 | 700
trans-1,2-Dichloroethene | tDCE | 100 | 1,000
1,1-Dichloroethene | 1,1-DCA | 70 | 700
Vinyl Chloride | VC | 1 | 100
DPT0120
DPT0133
DPT0216
DPT0209
DPT0134
DPT0102
DPT0213
DPT0124
DPT0210
DPT0103
DPT0088
DPT0211
DPT0209
DPT0212
DPT0104
DPT0222
DPT0206
DPT0082
DPT0122
DPT0203
DPT0098
DPT0121
IW0009S (2-12)
DPT0123
DPT0108
DPT0201
DPT0219
DPT0224
DPT0092
DPT0099
DPT0200
DPT0140
DPT0197
DPT0101
DPT0097
DPT0198
DPT0199
DPT0087
DPT0072
DPT0223
DPT0139
DPT0265
DPT0088
DPT0119
DPT0003
DPT0093
IW0014D (65-70)
IW0014I (35-45)
MW0040 (65-70)
MW0026 (30-40)
MW0022 (60-70)
MW0027 (40-50)
DPT0246
DPT0247
DPT0261
DPT0217
DPT0100
DPT0120 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/03/2010 | 8 to 12 | 1.0U | 1.0U | 1.0U | 1.0U | NA | 1.0U
12 to 16 | 1.0U | 1.0U | 1.0U | 1.0U | NA | 1.0U
16 to 20 | 5.2 J | 3.3 J | 170 | 10 J | NA | 400
21 to 25 | 52 UJ | 33 UJ | 9,300 | 230 | NA | 4,100
26 to 30 | 1.1 UJ | 1.0 UJ | 200 | 2.0 J | NA | 190
31 to 35 | 1.0U | 1.0U | 3.9 | 1.0U | NA | 1.5
36 to 40 | 1.0U | 1.0U | 12 J | 1.0U | NA | 1.8
41 to 45 | 1.0U | 1.0U | 140 | 1.0U | NA | 3.0
46 to 50 | 1.0U | 1.0U | 250 | 1.0U | NA | 5.6
DPT0133 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/09/2010 | 8 to 12 | 1.6 | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 11 UJ | 6.6 UJ | 710 | 11 | NA | 400
21 to 25 | 260 UJ | 170 UJ | 27,000 | 610 | NA | 1,700
26 to 30 | 110 UJ | 66 UJ | 15,000 | 210 | NA | 910
31 to 35 | 11 UJ | 6.6 UJ | 1,100 | 15 | NA | 580
36 to 40 | 26 UJ | 50.0 | 2,800 | 50 J | NA | 750
41 to 45 | 1.0 U | 1.0 U | 12.9 | 1.0 U | NA | 4.0
46 to 50 | 1.0 U | 1.0 U | 3.7 | 1.0 U | NA | 1.0 U
DPT0097 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/14/2010 | 8 to 12 | 1.0 U | 1.0 U | 28.8 | 1.0 U | NA | 160
12 to 16 | 20 U | 58 UJ | 3,100 | 72.0 | NA | 1,500
16 to 20 | 200 U | 58 UJ | 16,000 | 520 | NA | 1,000
21 to 25 | 1,000 U | 3,800 | 52,000 | 2,100 | NA | 1,500
26 to 30 | 100 U | 29 UJ | 3,200 | 110 | NA | 1,400
31 to 35 | 5.0 U | 14 UJ | 4.63 | 5.0 U | NA | 1.6 J
36 to 40 | 1.0 U | 1.0 U | 8.9 | 1.0 U | NA | 1.6
41 to 45 | 1.0 U | 1.0 U | 1.4 | 1.0 U | NA | 1.0 U
46 to 50 | 10 U | 1.0 U | 8.6 | 1.0 U | NA | 1.0 U
DPT0101 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/15/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.1 | 1.0 U | NA | 1.6
16 to 20 | 1.0 U | 1.0 U | 1.0 | 1.0 U | NA | 8.8
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 30.1
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 265
31 to 35 | 10 U | 2.9 UJ | 10 U | 10 U | NA | 120
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 12.1
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 3.0
DPT0197 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/18/2013 | 8 to 12 | 0.16 U | 0.56 J | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 20 | 65 | 0.28 U | NA | 24
21 to 25 | 0.32 U | 11 J J | 430 J J | 0.56 U | NA | 54 J J
26 to 30 | 0.32 U | 5.6 J J | 26 J J | 0.56 U | NA | 10 J J
31 to 35 | 0.32 U | 6.7 J J | 0.41 J | 0.56 U | NA | 0.28 U
36 to 40 | 0.16 U | 0.22 U | 0.74 J | 0.28 U | NA | 1.1
41 to 45 | 0.32 U | 380 J J | 1,200 J | 8.3 | NA | 65
46 to 60 | 0.32 U | 3.5 J | 4.6 | 0.56 U | NA | 0.28 U
DPT0140 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/11/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0092 (Mar-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/01/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 4.3
12 to 16 | 50 U | 50 U | 2,400 | 74.0 | NA | 1,200
16 to 20 | 1,000 U | 5,000 | 22,000 | 900 U | NA | 2,600
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 540
31 to 35 | 200 U | 3,800 | 5,100 | 200 U | NA | 1,000
36 to 40 | 100 U | 4,900 | 5,600 | 100 U | NA | 970
41 to 45 | 1.0 U | 2.3 | 2.8 | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0216 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/26/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
26 to 30 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
31 to 35 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
36 to 40 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
41 to 45 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
46 to 50 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
DPT0209 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/22/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
26 to 30 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
31 to 35 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
36 to 40 | 16 U | 39 J | 20 U | 2.8 U | NA | 110
41 to 45 | 16 U | 36 J | 20 U | 2.8 U | NA | 460
46 to 60 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 1.2
DPT0134 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/09/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 11 UJ | 9.4 J | 500 | 73.0 | NA | 200
36 to 40 | 2.6 UJ | 1.0 UJ | 1,000 | 1,000 U | NA | 4,200 J
41 to 45 | 26 UJ | 1,500 | 1,500 | 43 J | NA | 200
46 to 50 | 1.0 U | 46.4 | 12.5 | 1.0 U | NA | 1.0 U
DPT0102 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/16/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0213 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/25/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.22 U | 0.781 | 0.28 U | NA | 0.13 U
26 to 30 | 0.16 U | 0.85 J | 1.0 | 0.28 U | NA | 0.13 U
31 to 35 | 0.80 U | 1.1 U | 340 | 140 | NA | 210
36 to 40 | 160 U | 9,700 | 30,000 | 280 U | NA | 9,900
41 to 45 | 40 U | 330 | 7,300 | 70 U | NA | 2,500
46 to 60 | 0.16 U | 27 | 150 | 2.2 | NA | 20
03/26/2013 | 60 to 70 | 0.16 U | 8.5 | 37 | 0.28 U | NA | 1.6
DPT0124 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/05/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 87.2 | 1.9 | NA | 37.8
16 to 20 | 1.0 U | 1.0 U | 3,600 | 6.6 | NA | 560
21 to 25 | 26 UJ | 17 UJ | 4,300 | 50 U | NA | 1,000
26 to 30 | 1.0 U | 1.0 U | 2.9 | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.1 | 1.0 U | NA | 1.0 U
36 to 40 | 2.6 UJ | 1.7 UJ | 360 | 8.5 | NA | 290
41 to 45 | 1.0 U | 1.0 U | 2.2 | 1.0 U | NA | 1.2
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0211 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/22/2013 | 8 to 12 | 0.16 U | 0.43 J | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.35 J | 4.5 | 0.28 U | NA | 1.0
26 to 30 | 0.16 U | 4.4 | 1.1 | 0.28 U | NA | 0.27 J
31 to 35 | 8 U | 56 | 160 | 60 | NA | 130
36 to 40 | 8 U | 3,800 | 21,000 J | 300 | NA | 6,200
41 to 45 | 8 U | 3,900 | 11,000 J | 180 | NA | 2,100
46 to 60 | 0.16 U | 7.3 | 26 | 0.28 U | NA | 3.7
DPT0103 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
09/16/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 200 U | 2,900 | 8,700 | 160 U | NA | 4,000
41 to 45 | 100 U | 1,300 | 2,200 | 57 J | NA | 690
46 to 50 | 5.0 U | 2.4 J | 3.0 J | 5.0 U | NA | 1.2 U
DPT0088 (Feb-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
02/25/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 500 U | 6,000 | 14,000 | 500 U | NA | 13,000
41 to 45 | 200 U | 4,800 | 4,200 | 300 U | NA | 1,500
46 to 50 | 1.0 U | 1.3 | 1.3 | 1.0 U | NA | 1.0 U
DPT0214 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/26/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
26 to 30 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
31 to 35 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
36 to 40 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
41 to 45 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
46 to 50 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
DPT0222 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/21/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
26 to 30 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
31 to 35 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
36 to 40 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
41 to 45 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
46 to 50 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
DPT0104 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/16/2010 | 8 to 12 | 5.0 U | 1.4 UJ | 5.0 U | 5.0 U | NA | 1.2 UJ
12 to 16 | 5.0 U | 1.4 UJ | 5.0 U | 5.0 U | NA | 1.2 UJ
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.8 | NA | 5.10
41 to 45 | 10 U | 2.8 UJ | 61.0 | 10 U | NA | 750
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.6
DPT0206 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/21/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
26 to 30 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
31 to 35 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
36 to 40 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
41 to 45 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
46 to 50 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
DPT0082 (Feb-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
02/24/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 2.2
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0122 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/04/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.2 | 1.0 U | NA | 10 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 52 UJ | 120 | 6,400 | 100 U | NA | 2,900
41 to 45 | 52 UJ | 2,700 | 6,800 | 110 | NA | 1,600
46 to 50 | 1.0 U | 3.1 | 14.5 | 1.0 U | NA | 2.5
DPT0203 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/29/2013 | 8 to 12 | 0.16 U | 0.81 J | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
21 to 25 | 0.16 U | 0.68 J | 2.1 | 0.28 U | NA | 0.13 U
26 to 30 | 40 U | 130 J | 490 | 70 U | NA | 32.5 U
31 to 35 | 0.16 U | 0.22 U | 3.1 | 0.28 U | NA | 0.13 U
36 to 40 | 40 U | 4,000 | 15,000 | 230 J | NA | 5,000
41 to 45 | 40 U | 2,400 | 12,000 | 70 U | NA | 1,900
46 to 60 | 0.16 U | 5.5 | 21 | 0.28 U | NA | 2.7
DPT0098 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/14/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 2.0 U | 1.0 UJ | 2.0 U | 2.0 U | NA | 7.6
31 to 35 | 100 U | 580 | 1,000 | 120 | NA | 320
36 to 40 | 2,000 U | 36,000 | 49,000 | 700 J | NA | 13,000
41 to 45 | 20 U | 23.0 | 220 | 5.4 J | NA | 64.0
46 to 50 | 10 U | 16.0 | 190 | 10 U | NA | 6.4 J
DPT0121 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/03/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 52 UJ | 33 UJ | 6,400 | 100 U | NA | 4,900
41 to 45 | 26 UJ | 1,700 | 4,000 | 66.0 | NA | 2,200
46 to 50 | 1.0 U | 8.3 | 72.6 | 1.0 U | NA | 28.0
IW0009S (2-12)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
Mar-12 | 2 to 12 | 0.11 U | 0.16 U | 0.12 U | 0.13 U | 0.22 U
DPT0123 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/04/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0108 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
09/05/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0201 (June-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/19/2013 | 8 to 12 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 0.26 U
16 to 20 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 0.26 U
21 to 25 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 0.26 U
26 to 30 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 0.26 U
31 to 35 | 0.23 U | 0.19 U | 1.2 | 0.29 U | NA | 0.26 U
36 to 40 | 12 U | 9.5 U | 1,000 | 15 U | NA | 4,600
41 to 45 | 1.2 U | 0.95 U | 180 | 2.4 J | NA | 1,400
46 to 60 | 0.23 U | 0.19 U | 1.6 | 0.29 U | NA | 5
DPT0139 (Mar-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/18/2013 | 8 to 12 | 0.16 U | 0.22 U | 0.2 U | 0.28 U | NA | 0.13 U
16 to 20 | 0.16 U | 0.22 U | 1,600 J | 77 | NA | 290 J
21 to 25 | 0.32 U | 7,700 J | 24,000 J | 2,300 J | NA | 1,300 J
26 to 30 | 0.32 U | 1.0 J J | 15,000 J J | 520 J J | NA | 9,000 J J
31 to 35 | 40 U | 2,000 | 4,300 | 30 U | NA | 310
36 to 40 | 0.32 U | 15,000 J J | 14,000 J J | 560 J J | NA | 2,600 J J
41 to 45 | 80 U | 14,000 | 15,000 | 140 U | NA | 65 U
46 to 60 | 0.32 U | 120 | 220 | 5.6 | NA | 12 J J
60 to 70 | 0.16 U | 33 | 84 | 0.28 U | NA | 0.13 U
DPT0265 (Feb-13)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
06/20/2013 | 8 to 12 | 0.23 U | 0.19 U | 0.66 J | 0.29 U | NA | 1.8
16 to 20 | 0.23 U | 0.19 U | 1.6 | 0.29 U | NA | 7
21 to 25 | 0.23 U | 0.19 U | 0.49 J | 0.29 U | NA | 11.7
26 to 30 | 0.46 U | 0.38 U | 0.44 U | 0.58 U | NA | 3.10
31 to 35 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 4.8
36 to 40 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 24.5
41 to 45 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 3.6
46 to 60 | 0.23 U | 0.19 U | 0.22 U | 0.29 U | NA | 0.26 U
DPT0088 (Feb-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
02/25/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0119 (Aug-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
08/03/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
12 to 16 | 1.0 U | 1.0 U | 1.4 | 1.0 U | NA | 3.4
16 to 20 | 1.0 U | 1.0 U | 1.2 | 1.0 U | NA | 4.9
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 12.6
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 37.1
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 130
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 8.7
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
DPT0003 (May-05)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
05/10/2006 | 16 to 20 | 0.50 U | 0.70 U | 0.70 U | 0.50 U | NA | 12.1
21 to 25 | 0.50 U | 0.70 U | 0.70 U | 0.50 U | NA | 36.3
26 to 30 | 0.50 U | 0.70 U | 0.70 U | 0.50 U | NA | 24.3
31 to 35 | 0.50 U | 0.70 U | 0.70 U | 0.50 U | NA | 6.8
36 to 40 | 0.50 U | 0.70 U | 0.70 U | 0.50 U | NA | 0.80 U
05/09/2006 | 41 to 45 | 0.50 U | 0.70 U | 0.70 U | 0.50 U | NA | 0.80 U
DPT0093 (Jun-10)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
03/01/2010 | 8 to 12 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 2.7
12 to 16 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
16 to 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
21 to 25 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
26 to 30 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
31 to 35 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
36 to 40 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
41 to 45 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U
46 to 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.03
IW0014D (65-70)
IW0014I (35-45)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
Mar-12 | 35 to 45 | 0.11 U | 0.16 U | 0.30 U | 0.13 U | 0.22 U
MW0040 (65-70)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
Mar-12 | 65 to 75 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U
MW0026 (30-40)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1-DCA | VC
Mar-12 | 30 to 40 | 1.0 U | 1.000 | 3.000 | 3.6 | 3.5 | 2.000
MW0022 (60-70)
Date | Interval | PCE | TCE | cDCE | tDCE | 1,1

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. I indicates reported value is between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. L indicates value exceeds calibration range.
6. U indicates value was not detected above the method detection limit.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".

Screening Criteria			
Parameter	Abbreviation	GCTL	NADC
Tetrachloroethene	PCE	3	300
Trichloroethene	TCE	3	300
cis-1,2-Dichloroethene	cDCE	70	700
trans-1,2-Dichloroethene	tDCE	100	1,000
1,1-Dichloroethane	1,1-DCA	70	700
Vinyl Chloride	VC	1	100

DPT0266 (June-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/20/2013	8 to 12	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	16 to 20	0.23 U	0.19 U	1.0	0.29 U	NA	1.0
	21 to 25	0.23 U	0.19 U	0.31 I	0.29 U	NA	**12.2**
	26 to 30	1.2 U	0.95 U	1.1 U	1.5 U	NA	**18**
06/21/2013	31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	NA	**29.2**
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	**14.1**
	41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	NA	**5.6**
	56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0107 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/18/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**21.8**
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	**15.8**
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	**3.9**
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.5**
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0262 (June-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/19/2013	8 to 12	0.23 U	0.19 U	0.70 I	0.29 U	NA	0.26 U
	16 to 20	0.23 U	0.19 U	0.22 U	0.29 U	NA	**1.7**
	21 to 25	0.23 U	0.19 U	0.22 U	0.29 U	NA	**11.5**
	26 to 30	0.23 U	0.19 U	0.22 U	0.29 U	NA	**97.1**
	31 to 35	1.2 U	0.95 U	1.1 U	1.5 U	NA	**120**
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	**2.1**
	41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0106 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/17/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	21 to 25	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0142 (Oct-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
10/11/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0207 (Mar-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/21/2013	8 to 12	1.6 U	**79**	**120 J.L**	2.8 U	NA	**28 J.L**
	16 to 20	**40 U**	**760**	**10,000**	70 U	NA	**1,100**
	21 to 25	0.16 U	2.5	**5,900 L**	**320 L**	NA	**5,700 L**
	26 to 30	**40 U**	**55 U**	**510 J.L**	70 U	NA	**960 J.L**
	31 to 35	**40 U**	**55 U**	**4,400 J.L**	70 U	NA	**5,300 J.L**
	36 to 40	1.6 U	2.2 U	47 J.L	2.8 U	NA	**290 J.L**
	41 to 45	0.16 U	0.22 U	3.6	0.28 U	NA	**2.9**
	56 to 60	0.16 U	0.22 U	6.4	0.28 U	NA	**3.5**

DPT0096 (Mar-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/02/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	5.0 U	5.0 U	**93**	5.0	NA	**510**
	26 to 30	**2,000 U**	**2,000 U**	**34,000**	**2,000 U**	NA	**7,700**
	31 to 35	**100 U**	**100 U**	**14,000**	**500 U**	NA	**12,000**
	36 to 40	1.0 U	1.0 U	12.1	1.0 U	NA	**490**
	41 to 45	1.0 U	1.0 U	3.8	1.0 U	NA	**1.5**
	46 to 50	1.0 U	1.0 U	1.6	1.0 U	NA	1.0 U

MW0024

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
Mar-12	5 to 15	0.11 U	0.741	11	0.12 U	0.13 U	**13**

MW0025

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
Mar-12	25 to 35	0.11 U	0.61	**9,700**	75	2.2	**7,600**

DPT0218 (Mar-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/27/2013	8 to 12	0.16 U	0.22 U	1.1	0.28 U	NA	0.13 U
	16 to 20	0.16 U	0.22 U	0.2 U	0.28 U	NA	1.1
	21 to 25	0.16 U	2	13	1.9	NA	**18**
	26 to 30	**8 U**	**11 U**	10 U	14 U	NA	**1,100**
	31 to 35	**8 U**	**23 J**	**120**	14 U	NA	**6.4 U**
	36 to 40	**8 U**	**290**	**330**	14 U	NA	**110**
	41 to 45	0.16 U	**6.1**	**88**	2.3	NA	**12**
	56 to 60	0.16 U	0.22 U	0.2 U	0.28 U	NA	0.13 U

DPT0240 (May-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
05/20/2013	8 to 12	0.23 U	0.19 U	0.23 U	0.29 U	NA	0.26 U
	16 to 20	0.23 U	0.19 U	0.41 I	0.29 U	NA	0.45 I
	21 to 25	0.23 U	0.19 U	0.22 U	0.29 U	NA	1.0
	26 to 30	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.31 I
	31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 I

DPT0241 (May-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
05/20/2013	8 to 12	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	16 to 20	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	21 to 25	0.23 U	0.19 U	0.23 U	0.29 U	NA	0.26 U
	26 to 30	0.23 U	0.19 U	0.23 U	0.29 U	NA	0.26 U
	31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0203 (Mar-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
03/21/2013	8 to 12	0.16 U	0.22 U	13	0.28 U	NA	0.13 U
	16 to 20	0.16 U	0.22 U	0.2 U	0.28 U	NA	**10**
	21 to 25	**8 U**	**11 U**	10 U	14 U	NA	**2,400**
	26 to 30	0.8 U	1.1 U	1 U	9.6	NA	**1,000**
	31 to 35	0.8 U	1.1 U	1 U	1.4 U	NA	**1,600 L**
	36 to 40	1.6 U	**13**	21	2.8 U	NA	**7.5 I**
03/22/2013	41 to 45	0.16 U	0.22 U	2.8	0.28 U	NA	**24**
	56 to 60	0.16 U	2.3	5	0.28 U	NA	**3.5**

DPT0073 (Feb-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
02/03/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**2.6**
	36 to 40	1.0 U	1.6	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	56 to 60	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0112 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/21/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	21 to 25	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0113 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
6/22/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**2.9**
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	**6.8**
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	**3.8**
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	**2.4**
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0249 (May-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
05/23/2013	8 to 12	0.23 U	0.19 U	0.63 I	0.29 U	NA	0.45 I
	16 to 20	0.23 U	0.55 I	3.4	0.29 U	NA	**23.5**
	21 to 25	0.23 U	0.53 I	2.3	0.29 U	NA	0.26 U
	26 to 30	0.23 U	0.66 I	0.22 U	0.29 U	NA	0.26 U
	31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0267 (June-13)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/21/2013	16 to 20	0.23 U	0.19 U	8.9	0.29 U	NA	**1.40**
	21 to 25	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	26 to 30	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
	36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0141 (Oct-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
10/11/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0084 (Feb-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
02/24/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0085 (Feb-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
02/25/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.3
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0114 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/22/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**3.6**
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.9**
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0111 (Jun-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
06/21/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	56 to 60	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0126 (Aug-10)

Date	Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
08/05/2010	8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	16 to 20	1.0 U	1.0 U	2.3	1.0 U	NA	1.0 U
	26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
	41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
08/06/2010	46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

Figure 8
CRHE Area Summary of VOC Results in Groundwater (East Hot Spot 1 Area)

N

50 25 0 50
Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [TCE Concentration])

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth based on elevated U values
- 3 µg/L TCE Isopleth
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utility

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indicates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".
9. Only monitoring wells that were sampled in March 2012 are shown on this map.
10. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
11. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Contractor's Road

Path: J:\Jacobs-01\Data\71002\PPT\061_CRHE\MXD\JUNE2013-TCE_E_bnl4_Rev_JUNE2013.mxd - 03 Sep 2013 JRB

Figure 9
CRHE Area Summary of TCE Results in Groundwater 8 to 16 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10xNADC)
- TCE concentration greater than 11,000 µg/L (TCE 1% Solubility)

Monitoring Well Location showing (screen interval (ft BLS) and [TCE Concentration])

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth based on elevated U values
- 3 µg/L TCE Isopleth
- 300 µg/L TCE Isopleth
- 3,000 µg/L TCE Isopleth
- 11,000 µg/L 1% TCE Solubility Isopleth (SZ)
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. L indicates value exceeds calibration range.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Only monitoring wells that were sampled in March 2012 are shown on this map.
11. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
12. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.
13. " indicates data not used to generate contours.

Contractor's Road

Path: I:\Tauvella-01\Data\TIGGS\FR1681_CRHE\MXDs\JUNE2013\TCE_16_to30_ftbls_JUNE2013.mxd 05 Sep 2013 JRB

Figure 10
CRHE Area Summary of TCE Results in Groundwater 16 to 30 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L (Only locations with results > 1.0 U are labeled)
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10xNADC)
- TCE concentration greater than 11,000 µg/L (TCE 1% Solubility)

Monitoring Well Location showing (screen interval (ft BLS) and [TCE Concentration])

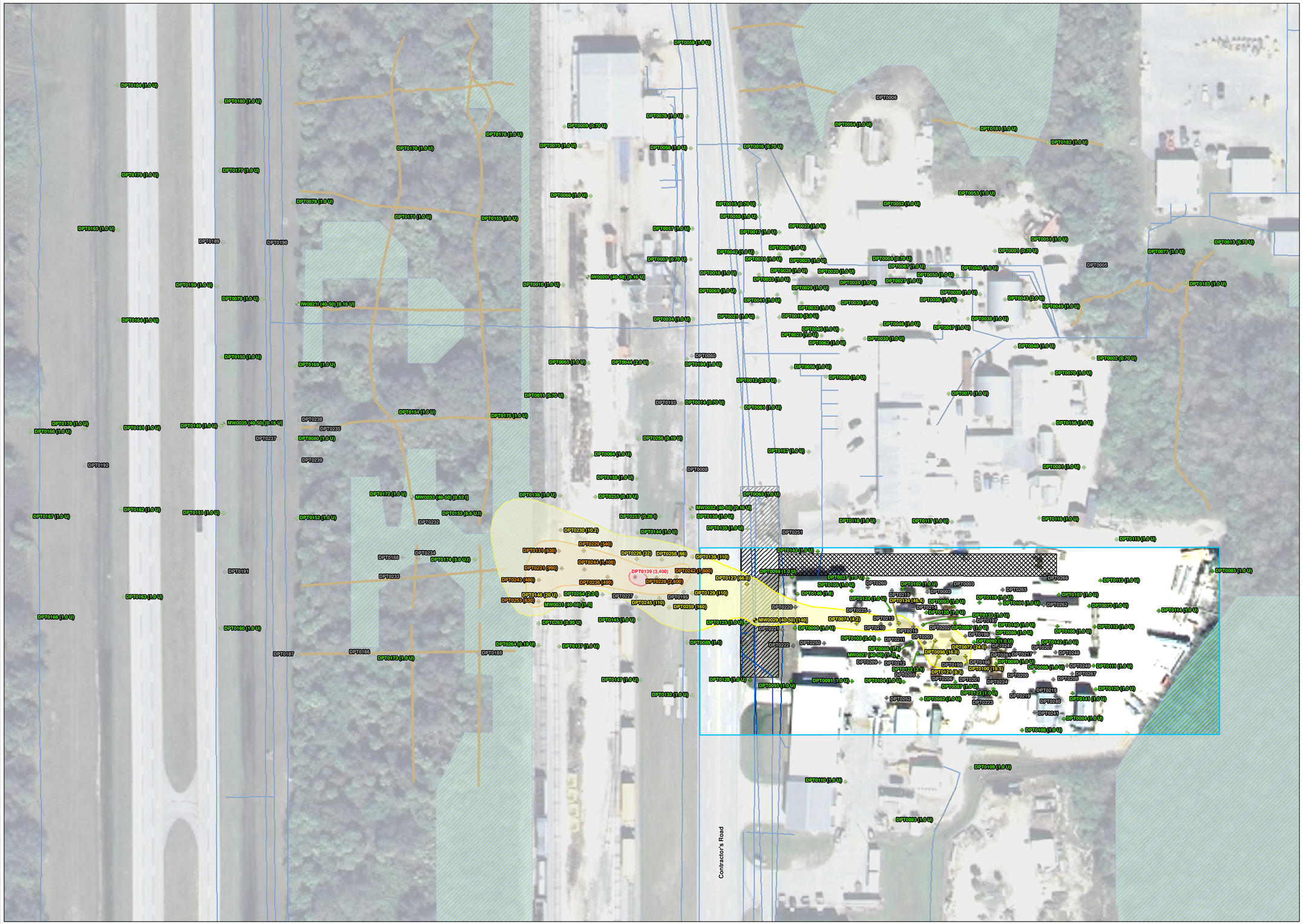
- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth (based on elevated U values)
- 3 µg/L TCE Isopleth
- 300 µg/L TCE Isopleth
- 3,000 µg/L TCE Isopleth
- 11,000 µg/L 1% Solubility TCE Isopleth (SZ)
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. J indicates estimated value.
7. L indicates value exceeds calibration range.
8. * indicates data not used to generate contours.
9. GCTL indicates Groundwater Cleanup Target Level.
10. NADC indicates Natural Attenuation Default Concentration.
11. Prefix for all sampling locations is "CRHE-".
12. Only monitoring wells that were sampled in March 2012 are shown on this map.
13. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
14. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Contractor's Road

Path: (Tbaustin-fil1\Data\TI\GIS\FFR1681_CRHE\MXDs\JUNE2013\TCE_31_to46_bls_JUNE2013.mxd 05 Sep 2013 JRB

Figure 11
CRHE Area Summary of TCE Results in Groundwater 31 to 46 ft BLS



Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indicates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".
9. Only monitoring wells that were sampled in November 2009 are shown on this map.
10. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
11. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Figure 12
CRHE Area Summary of TCE Results in Groundwater 46 to 56 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10xNADC)

Monitoring Well Location showing (screen interval (ft BLS) and [TCE Concentration])

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indicates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".
9. Data presented is from the deepest depth interval for each location.
10. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
11. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.
12. * indicates data not used for contouring.

Contractor's Road

Path: C:\Surdis-01\Data\77-GGS\FY1601_CRHE\MXDs\JUNE2013\TCE_greater_than_56_fbls_JUNE2013.mxd 03 September 2013 JRB

Figure 13
CRHE Area Summary of TCE Results in Groundwater Greater than 56 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

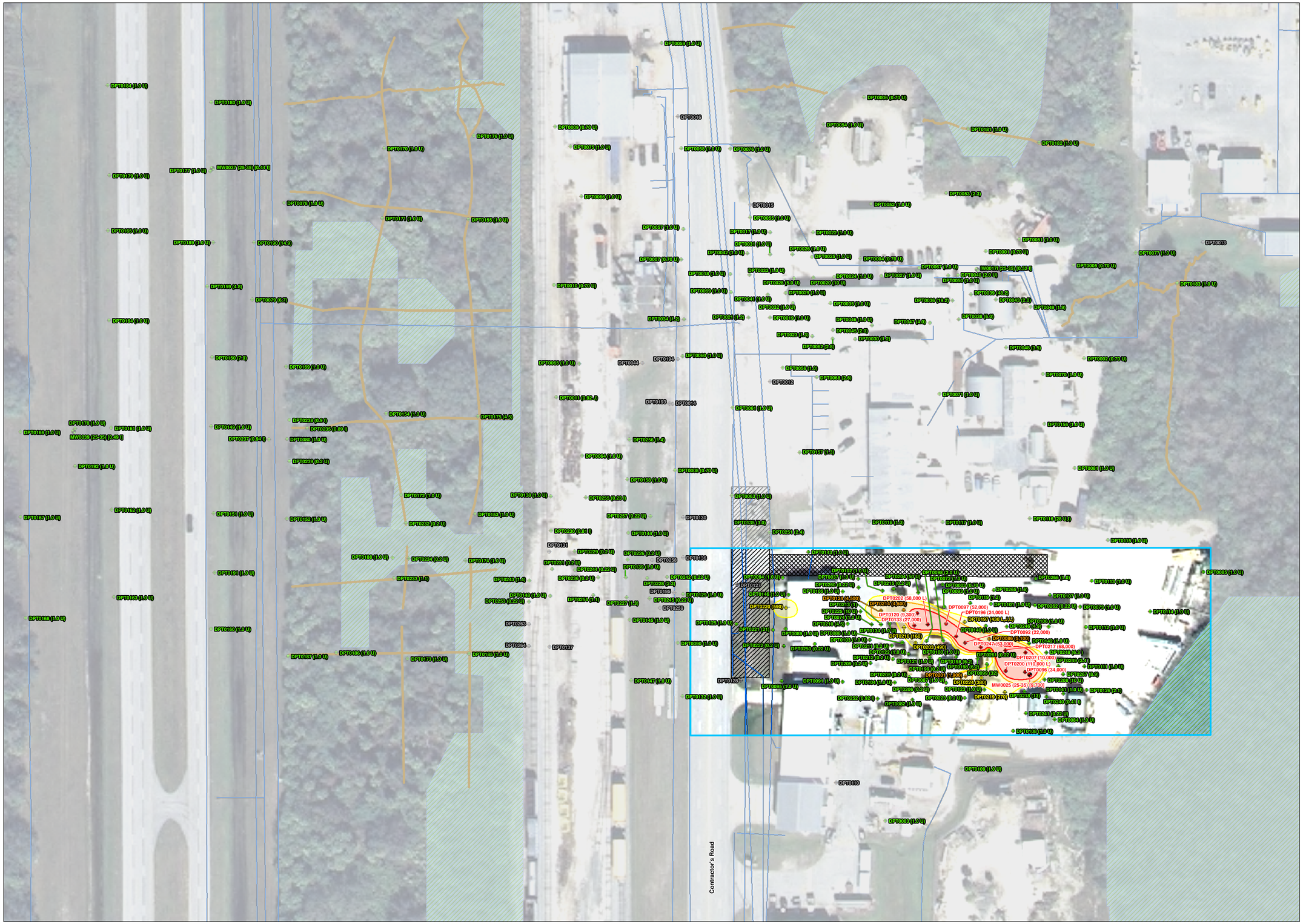
- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

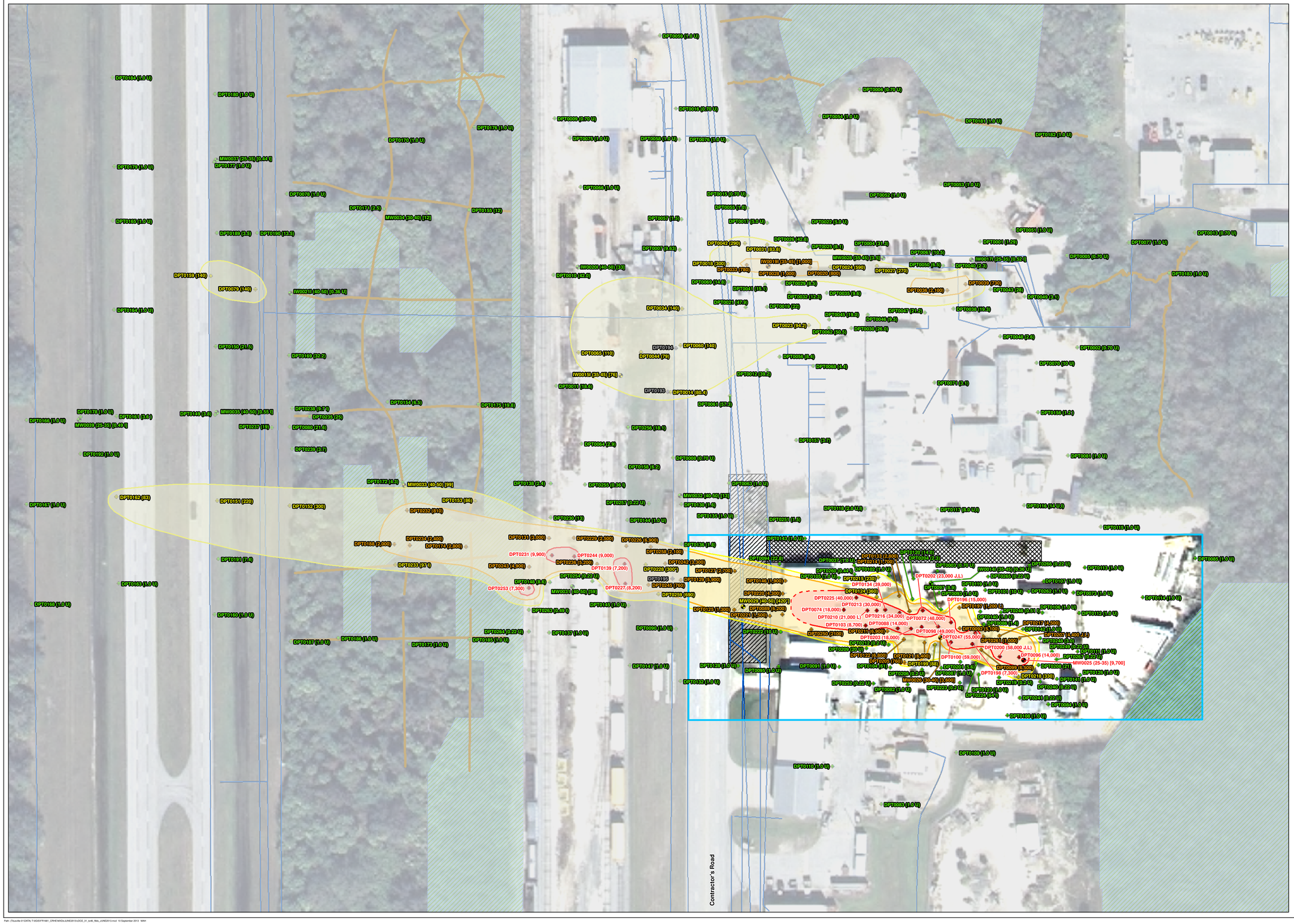
Notes:
1. Results are presented in micrograms per liter (µg/L).
2. ft BLS indicates feet below land surface.
3. I indicates reported value is between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. L indicates value exceeds calibration range.
6. U indicates value was not detected above the method detection limit.
7. cDCE indicates cis-1,2-dichloroethene.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. Only monitoring wells that were sampled in March 2012 are shown on this map.
12. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
13. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Contractor's Road

Path: (T:\auto\le-01\data\T-DGS\FPI\581_CRHE\MXDs\JUNE2013\DCE_8_to16_fbls_JUNE2013.mxd 05 Sep 2013 JRB

Figure 14
CRHE Area Summary of cDCE Results in Groundwater 8 to 16 ft BLS


DPT0184 (1.0 U)
DPT0188 (1.0 U)
DPT0170 (1.0 U)
DPT0177 (1.0 U)
MW0037 (25-35) [0.44 I]
DPT0179 (1.0 U)
DPT0176 (1.0 U)
DPT0188 (1.0 U)
DPT0189 (1.0 U)
DPT0190 (14.9)
DPT0171 (1.0 U)
DPT0155 (1.0 U)
DPT0189 (1.8)
DPT0076 (9.5)
DPT0184 (1.0 U)
DPT0159 (7.5)
DPT0189 (1.0 U)
DPT0176 (1.0 U)
DPT0161 (1.0 U)
DPT0186 (1.0 U)
MW0039 (25-35) [0.43 I]
DPT0148 (1.0 U)
DPT0237 (0.94 I)
DPT0080 (1.0 U)
DPT0192 (1.0 U)
DPT0230 (0.2 U)
DPT0182 (1.0 U)
DPT0187 (1.0 U)
DPT0151 (1.0 U)
DPT0192 (1.0 U)
DPT0232 (0.2 U)
DPT0189 (1.0 U)
DPT0234 (0.2 U)
DPT0174 (1.0 U)
DPT0151 (1.0 U)
DPT0233 (1.1)
DPT0189 (1.0 U)
DPT0190 (1.0 U)
DPT0187 (1.0 U)
DPT0186 (1.0 U)
DPT0175 (1.0 U)
DPT0154 (1.0 U)
DPT0175 (1.5)
DPT0235 (0.9 I)
DPT0235 (0.89 I)
DPT0230 (0.2 U)
DPT0231 (0.2 U)
DPT0239 (0.70 U)
DPT0018
DPT0076 (1.0 U)
DPT0075 (1.0 U)
DPT0035 (1.0 U)
DPT0070 (1.0 U)
DPT0066 (1.0 U)
DPT0015
DPT0065 (1.0 U)
DPT0067 (1.0 U)
DPT0017 (1.0 U)
DPT0031 (1.0 U)
DPT0042 (1.0 U)
DPT0007 (0.70 U)
DPT0018 (1.0 U)
DPT0016 (0.70 U)
DPT0029 (1.0 U)
DPT0041 (1.0 U)
DPT0032 (1.0 U)
DPT0034 (1.5)
DPT0221 (1.5)
DPT0044 (1.0 U)
DPT0184
DPT0030 (1.0 U)
DPT0044
DPT0011 (0.62 J)
DPT0193
DPT0014
DPT0154 (1.0 U)
DPT0175 (1.5)
DPT0236 (1.4)
DPT0064 (1.0 U)
DPT0159 (1.0 U)
DPT0172 (1.0 U)
DPT0139 (1.0 U)
DPT0255 (0.23 I)
DPT0257 (0.22 U)
DPT0153 (1.0 U)
DPT0130
DPT0230 (0.51 I)
DPT0141 (1.0 U)
DPT0131
DPT0220 (0.2 U)
DPT0229 (0.2 U)
DPT0228
DPT0136
DPT0231 (0.2 U)
DPT0244 (0.22 U)
DPT0133 (1.0 U)
DPT0236 (0.21 I)
DPT0243 (1.4)
DPT0245 (0.22 U)
DPT0148 (1.0 U)
DPT0253 (0.22 U)
DPT0254 (1.4)
DPT0227 (1.5)
DPT0135 (1.0 U)
DPT0226 (2.1)
DPT0185
DPT0139 (1.0 U)
DPT0229
DPT0145 (1.0 U)
DPT0225 (1.0 U)
DPT0203
DPT0204
DPT0137
DPT0099 (1.0 U)
DPT0187 (1.0 U)
DPT0186 (1.0 U)
DPT0175 (1.0 U)
DPT0185 (1.0 U)
DPT0147 (1.0 U)
DPT0132 (1.0 U)
DPT0123
DPT0095 (110 U)
DPT0091 (1.0 U)
DPT0088 (1.0 U)
DPT0090 (1.0 U)
DPT0221 (21)
DPT0232 (0.2 U)
DPT0250 (0.22 U)
DPT0088 (1.0 U)
DPT0135 (1.0 U)
DPT0211 (0.2 U)
DPT0222 (1.0 U)
DPT0212 (1.2 U)
DPT0121 (1.0 U)
DPT0206 (0.2 U)
DPT0189 (0.2 U)
DPT0205 (0.2 U)
DPT0200 (0.2 U)
DPT0204 (1.0 U)
DPT0229 (0.23 U)
DPT0232 (1.0 U)
DPT0222 (0.2 U)
DPT0110
DPT0089 (1.0 U)
Contractor's Road
DPT0222 (1.0 U)
DPT0224 (1.0 U)
DPT0228 (3.0 U)
DPT0220 (10 U)
DPT0225 (1.0 U)
DPT0032 (1.0 U)
DPT0045 (1.0 U)
DPT0045 (2.0)
DPT0033 (2.0)
DPT0030 (1.4)
DPT0035 (1.4)
DPT0035 (2.4)
DPT0012
DPT0091 (1.0 U)
DPT0093 (2.4)
DPT0181 (1.0 U)
DPT0182 (1.0 U)
DPT0083 (2.4)
DPT0081 (1.0 U)
DPT0077 (1.0 U)
DPT0013
DPT0085 (0.70 U)
DPT0188 (1.0 U)
DPT0114 (1.0 U)
DPT0115 (1.0 U)
DPT0085 (1.0 U)
DPT0087 (1.0 U)
DPT0027 (1.0 U)
DPT0050 (1.0 U)
DPT0035 (19.2)
DPT0045 (2.0)
DPT0049 (1.4)
DPT0038 (3.4)
DPT0047 (1.4)
DPT0048 (3.4)
DPT0092 (0.50 U)
DPT0070 (1.0 U)
DPT0071 (1.0 U)
DPT0155 (1.0 U)
DPT0157 (1.5)
DPT0081 (1.0 U)
DPT0115 (1.0 U)
DPT0116 (1.4)
DPT0117 (1.0 U)
DPT0116 (20 U)
DPT0251 (2.4)
DPT0135 (3.0)
DPT0083 (1.0 U)
DPT0123 (1.0 U)
DPT0124 (1.0 U)
DPT0125 (1.0 U)
DPT0127
DPT0114 (1.0 U)
DPT0037 (1.0 U)
DPT0072 (1.0 U)
DPT0250 (3.5)
DPT0215 (0.2 U)
DPT0209 (0.22 U)
DPT0115 (1.0 U)
DPT0124 (1.5)
DPT0214 (1.5)
DPT0220 (500)
DPT0225 (10 U)
DPT0074 (1.0 U)
DPT0210 (1.5)
DPT0221 (21)
DPT0216 (160)
DPT0232 (0.2 U)
DPT0212 (1.2 U)
DPT0206 (0.2 U)
DPT0189 (0.2 U)
DPT0205 (0.2 U)
DPT0200 (1.5)
DPT0204 (1.0 U)
DPT0229 (0.23 U)
DPT0232 (1.0 U)
DPT0222 (0.2 U)
DPT0224 (1.0 U)
DPT0228 (3.0 U)
DPT0220 (10 U)
DPT0225 (1.0 U)
DPT0032 (1.0 U)
DPT0045 (1.0 U)
DPT0045 (2.0)
DPT0033 (2.0)
DPT0030



Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. L indicates value exceeds calibration range.
7. U indicates value was not detected above the method detection limit.
8. * indicates value was not used for contouring.
9. GCTL indicates Groundwater Cleanup Target Level.
10. NADC indicates Natural Attenuation Default Concentration.
11. Prefix for all sampling locations is "CRHE-".
12. Only monitoring wells that were sampled in March 2012 are shown on this map.
13. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
14. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Figure 16
CRHE Area Summary of cDCE Results in Groundwater 31 to 46 ft BLS

N

50 25 0 50 Feet

Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- cDCE concentration greater than 7,000 µg/L (10xNADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

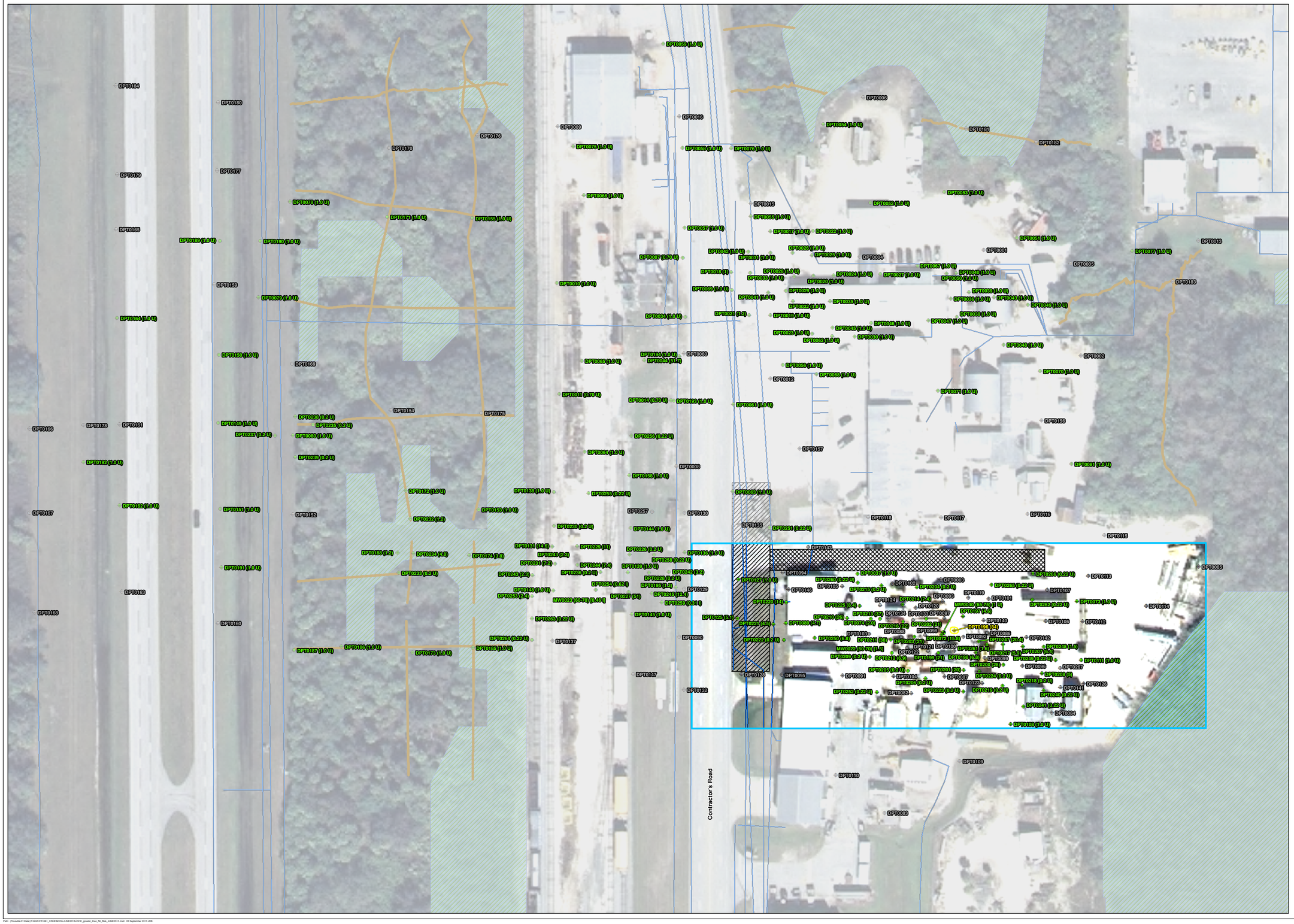
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- 7,000 µg/L cDCE Isopleth
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. U indicates value was not detected above the method detection limit.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Only monitoring wells that were sampled in March 2012 are shown on this map.
11. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
12. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Contractor's Road

Path: I:\Tauvella-01\DATA\TGOSS\FY1681_CRHE\MXDs\JUNE2013\cDCE_46_to_56_fbls_JUNE2013.mxd 05 September 2013 MAH

Figure 17
CRHE Area Summary of cDCE Results in Groundwater 46 to 56 ft BLS



N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. U indicates value was not detected above the method detection limit.
5. GCTL indicates Groundwater Cleanup Target Level.
6. NADC indicates Natural Attenuation Default Concentration.
7. Prefix for all sampling locations is "CRHE-".
8. Data presented is from the bottom depth interval for each location.
9. Only monitoring wells that were sampled in November 2012 are shown on this map.
10. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
11. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Path: I:\Tauranac-01\Data\T-DGS\FY14\01_CRHE\MXD\JUNE2013\cDCE_greater_than_56_ftbls_JUNE2013.mxd 03 September 2013 JRB

Figure 18
CRHE Area Summary of cDCE Results in Groundwater Greater than 56 ft BLS

N

50 25 0 50
Feet

Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (10xNADC)

Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

- VC concentration less than or equal to 3 µg/L
- VC concentration greater than 3 µg/L (GCTL)
- VC concentration greater than 300 µg/L (NADC)
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- 1,000 µg/L VC Isopleth
- Wetlands
- Area of Subsurface Obstructions; Unable to Drill
- Utility Corridor; Unable to Drill
- Hot Spot 1 Area
- Cleared Paths
- Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. L indicates value exceeds calibration range.
7. U indicates value was not detected above the method detection limit.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. Only monitoring wells that were sampled in March 2012 are shown on this map.
12. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
13. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Contractor's Road

Path: I:\Auto\tkr-01\Data\71\GIS\FR1661_CRHE\MXDs\JUNE2013\VC_8_to16_fbls_JUNE2013.mxd 03 Sep 2013 JRB

Figure 19
CRHE Area Summary of VC Results in Groundwater 8 to 16 ft BLS

N

50 25 0 50 Feet

Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (10xNADC)

Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)

1 µg/L VC Isopleth Sink

Inferred 1 µg/L VC Isopleth

1 µg/L VC Isopleth

100 µg/L VC Isopleth

1,000 µg/L VC Isopleth

Wetlands

Area of Subsurface Obstructions; Unable to Drill

Utility Corridor; Unable to Drill

Hot Spot 1 Area

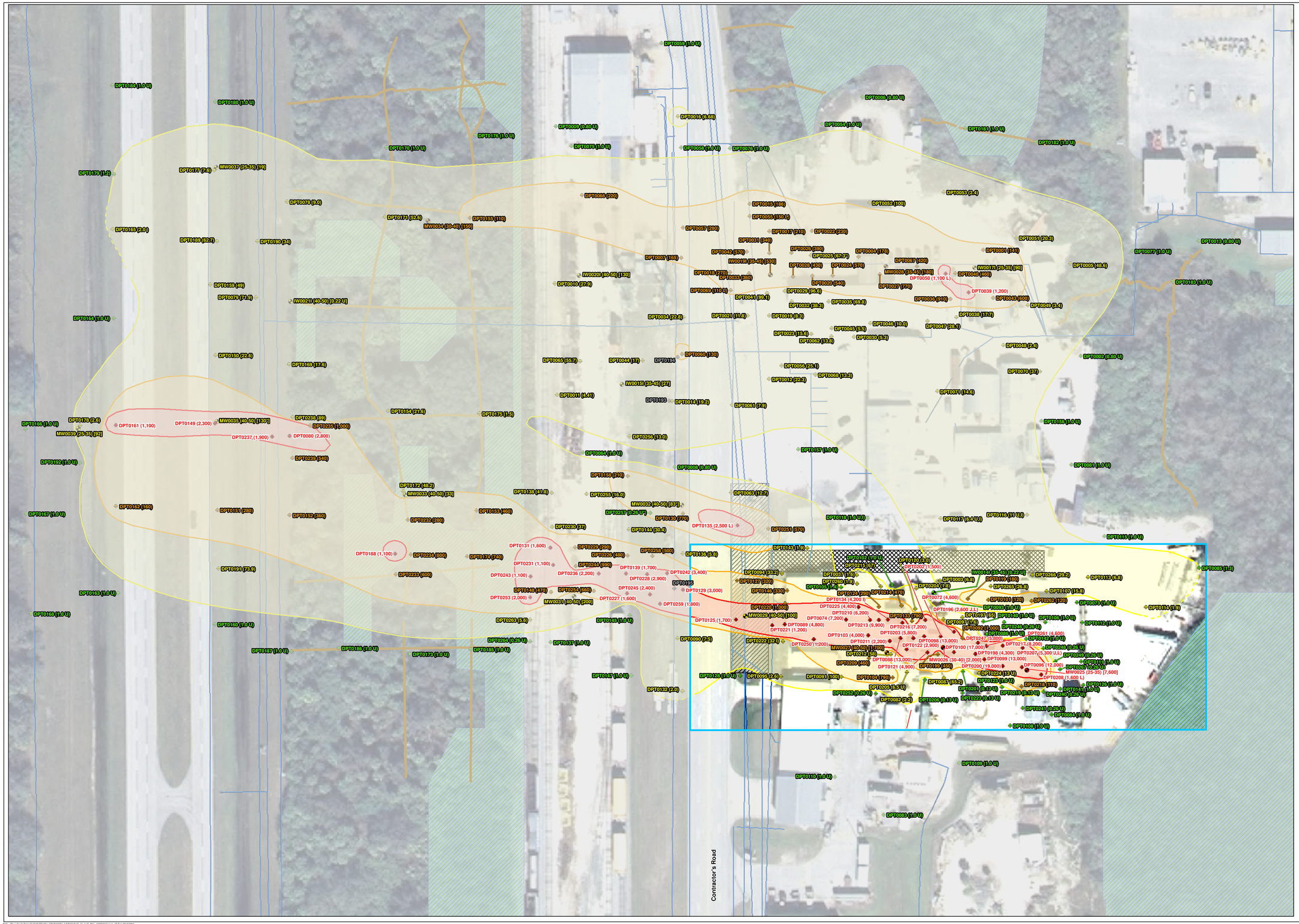
Cleared Paths

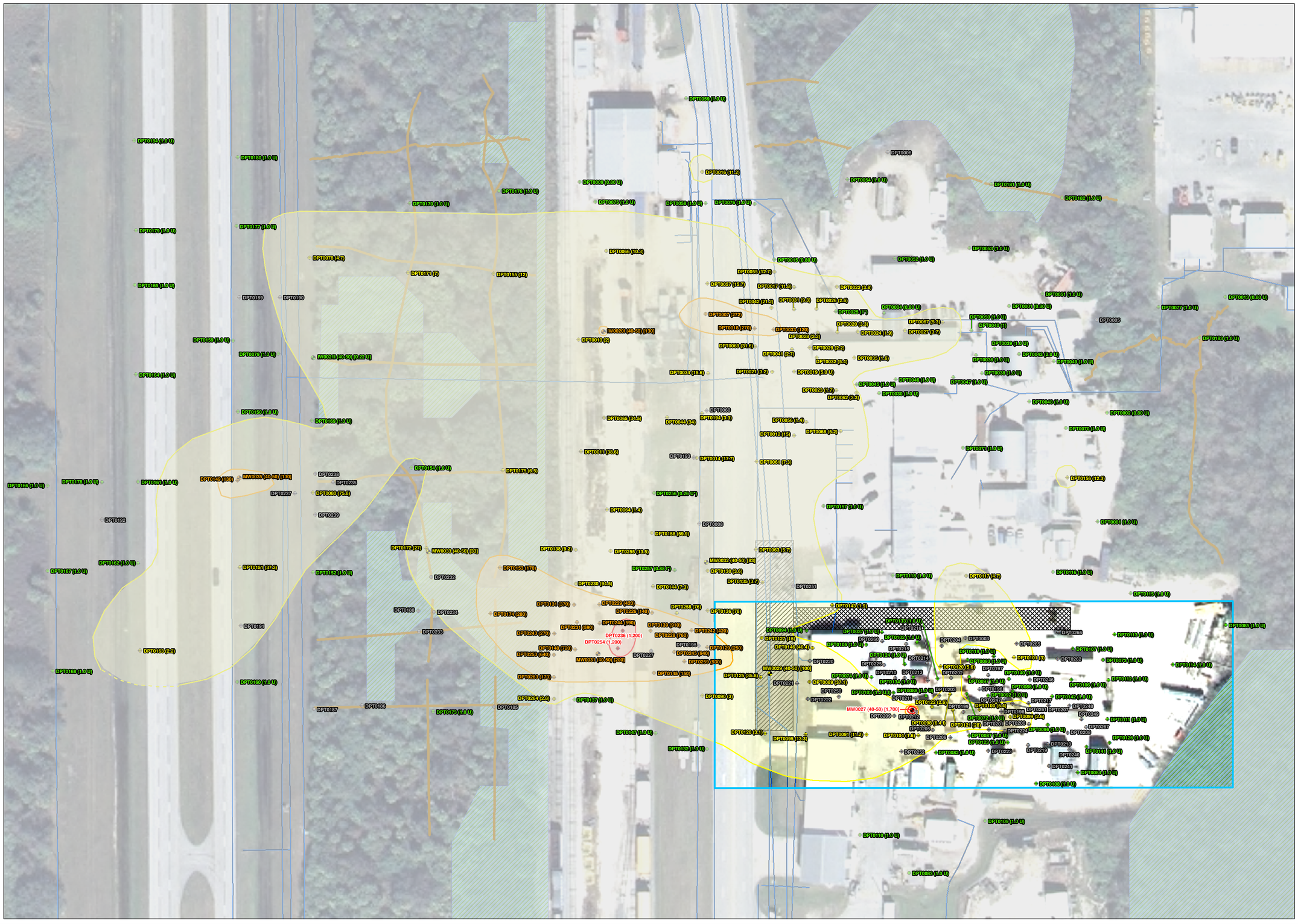
Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. L indicates value exceeds calibration range.
6. U indicates value was not detected above the method detection limit.
7. J indicates estimated value.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. * indicates data not used to generate contours.
12. Only monitoring wells that were sampled in March 2012 are shown on this map.
13. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
14. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Path: \\Tauvfile-01\DATA\ TUGGS\FY16\01_CRHE MW\[mJUNE2013 VC_16_to30_fbls_JUNE2013.mxd 05 September 2013 MAH

Figure 20
CRHE Area Summary of VC Results in Groundwater 16 to 30 ft BLS


DPT0184 (1.0 U)
DPT0180 (1.0 U)
DPT0176 (1.0 U)
DPT0170 (1.0 U)
DPT0179 (1.2)
DPT0177 (2.4)
MW0037 (25-35) [19]
DPT0078 (9.9)
DPT0165 (2.0 J)
DPT0171 (53.6)
DPT0155 (110)
MW0034 (30-40) [150]
DPT0189 (22.7)
DPT0180 (34)
DPT0189 (49)
DPT0079 (71.9)
IW0021I (40-50) (0.22 U)
DPT0184 (1.0 U)
DPT0150 (22.9)
DPT0169 (17.6)
DPT0178 (2.9)
DPT0166 (1.0 U)
DPT0161 (1,100)
DPT0149 (2,300)
MW0035 (40-50) [320]
DPT0235 (89)
DPT0235 (1,000)
MW0039 (25-35) [92]
DPT0237 (1,900)
DPT0080 (2,800)
DPT0192 (1.0 U)
DPT0238 (340)
DPT0184 (21.6)
DPT0175 (1.5)
DPT0182 (160)
DPT0187 (1.0 U)
DPT0151 (280)
DPT0152 (360)
DPT0172 (48.2)
MW0033 (40-50) [53]
DPT0232 (280)
DPT0188 (1,100)
DPT0234 (800)
DPT0174 (700)
DPT0191 (79.9)
DPT0233 (800)
DPT0185 (1.0 U)
DPT0160 (1.0 U)
DPT0187 (1.0 U)
DPT0186 (1.0 U)
DPT0172 (1.0 U)
DPT0147 (1.0 U)
DPT0132 (2.0)
DPT0158 (210)
DPT0138 (41.8)
DPT0255 (16.0)
MW0032 (40-50) [57]
DPT0257 (0.20 U*)
DPT0130 (770)
DPT0135 (2,500 L)
DPT0220 (37)
DPT0141 (30.4)
DPT0131 (1,600)
DPT0229 (280)
DPT0236 (380)
DPT0231 (1,100)
DPT0244 (300)
DPT0139 (1,700)
DPT0236 (2,200)
DPT0243 (1,100)
DPT0228 (2,900)
DPT0245 (2,400)
DPT0253 (2,000)
DPT0227 (1,600)
DPT0259 (1,900)
DPT0129 (3,000)
DPT0242 (3,400)
DPT0185
DPT0269 (3.6)
DPT0260 (1.20 U)
DPT0137 (1.0 U)
DPT0145 (1.0 U)
DPT0099 (75)
DPT0222 (32)
DPT0250 (12000)
DPT0125 (1,700)
DPT0221 (1,200)
DPT0089 (4,800)
DPT0103 (4,000)
DPT0211 (2,200)
DPT0212 (3.6)
DPT0088 (13,000)
DPT0121 (4,900)
DPT0104 (700)
DPT0225 (1.20 U)
DPT0082 (2.2)
DPT0123 (1.0 U)
DPT0095 (2.6)
DPT0091 (100)
DPT0087 (33.2)
DPT0201 (0.43 U)
DPT0200 (1.13 U)
DPT0223 (0.43 U)
DPT0210 (0.43 U)
DPT0208 (1,600 L)
DPT0241 (1.25 U)
DPT0084 (1.0 U)
DPT0188 (1.0 U)
DPT0110 (1.0 U)
DPT0085 (1.0 U)
DPT0102 (1.0 U)
DPT0070 (37)
DPT0071 (14.6)
DPT0155 (1.0 U)
DPT0081 (1.0 U)
DPT0085 (1.5)
DPT0114 (1.0)
DPT0113 (1.0 U)
DPT0183 (1.0 U)
DPT0077 (1.0 U)
DPT0013 (0.20 U)
DPT0048 (2.4)
DPT0002 (0.20 U)
DPT0005 (48.0)
DPT0051 (20.2)
DPT0091 (141)
DPT0177 (25-35) [90]
DPT0040 (400)
DPT0039 (1,200)
DPT0049 (800)
DPT0038 (127)
DPT0047 (28.1)
DPT0046 (10.4)
DPT0045 (3.6)
DPT0030 (3.6)
DPT0050 (1,100 L)
DPT0027 (770)
DPT0035 (310)
DPT0004 (170)
DPT0087 (420)
DPT0028 (430)
DPT0024 (570)
DPT0020 (640)
DPT0025 (57.5*)
DPT0029 (330)
DPT0042 (570)
IW0019I (35-45) [310]
DPT0007 (185)
DPT0018 (570)
DPT0033 (600)
DPT0010 (27.6)
IW0020I (40-50) [130]
DPT0017 (210)
DPT0022 (230)
DPT0031 (340)
DPT0015 (184)
DPT0035 (150 L)
DPT0092 (100)
DPT0063 (2.4)
DPT0086 (220)
DPT0057 (280)
DPT0181 (1.0 U)
DPT0182 (1.0 U)
DPT0176 (1.0 U)
DPT0170 (1.0 U)
DPT0178 (1.0 U)
DPT0158 (1.0 U)
DPT0156 (1.0 U)
DPT0159 (1.0 U)
DPT0157 (1.0 U)
DPT0083 (12.7)
DPT0256 (13.0)
DPT0264 (1.0 U)
DPT0093 (0.20 U)
DPT0012 (22.9)
DPT0028 (13.5)
DPT0011 (4.41)
DPT0193
DPT0014 (19.2)
DPT0091 (2.9)
DPT0256 (13.0)
DPT0157 (1.0 U)
DPT0093 (0.20 U)
DPT0158 (210)
DPT0135 (2,500 L)
DPT0251 (570)
DPT0143 (1.0)
DPT0142 (1.0 U)
DPT0141 (1.0)
DPT0015 (57)
DPT0022 (1,500)
DPT0084 (32.2)
DPT0127 (320)
DPT0037 (180)
DPT0260 (1.0)
DPT0105 (1.0)
DPT0146 (330)
DPT0134 (200)
DPT0214 (370)
DPT0134 (4,200 I)
DPT0225 (4,400)
DPT0210 (6,200)
DPT0074 (7,200)
DPT0213 (9,900)
DPT0216 (7,200)
DPT0203 (5,800)
DPT0103 (4,000)
DPT0211 (2,200)
DPT0098 (13,000)
DPT0122 (2,900)
DPT0212 (3.6)
DPT0088 (13,000)
DPT0121 (4,900)
DPT0222 (32)
DPT0250 (12000)
DPT0099 (75)
DPT0147 (1.0 U)
DPT0132 (2.0)
DPT0123 (1.0 U)
DPT0095 (2.6)
DPT0091 (100)
DPT0104 (700)
DPT0225 (1.20 U)
DPT0082 (2.2


DPT0184 (1.0 U)
DPT0180 (1.0 U)
DPT0170 (1.0 U)
DPT0177 (1.0 U)
DPT0179 (1.0 U)
DPT0178 (1.0 U)
DPT0176 (1.0 U)
DPT0175 (1.0 U)
DPT0174 (1.0 U)
DPT0173 (1.0 U)
DPT0172 (27)
DPT0171 (7)
DPT0155 (12)
DPT0070 (15)
DPT0185 (1.0 U)
DPT0189
DPT0190
DPT0159 (1.0 U)
DPT0070 (1.0 U)
IW0020R (40-50) [130]
IW0021R (40-50) [0.22 U]
DPT0184 (1.0 U)
DPT0180 (1.0 U)
DPT0186 (1.0 U)
DPT0161 (1.0 U)
DPT0173 (1.0 U)
DPT0145 (130)
MW0035 (40-50) [130]
DPT0238
DPT0235
DPT0237
DPT0080 (75.8)
DPT0239
DPT0192
DPT0182 (1.0 U)
DPT0167 (1.0 U)
DPT0151 (37.5)
DPT0185 (1.0 U)
DPT0232
DPT0186
DPT0234
DPT0191
DPT0233
DPT0183 (2.2)
DPT0188 (1.0 U)
DPT0180 (1.0 U)
DPT0157
DPT0186
DPT0173 (1.0 U)
DPT0188
DPT0009 (1.0 U)
DPT0016 (11.2)
DPT0009 (3.40 U)
DPT0175 (1.0 U)
DPT0176 (1.0 U)
DPT0175 (1.0 U)
DPT0176 (1.0 U)
DPT0066 (10.3)
DPT0155 (12)
DPT0171 (7)
DPT0189
DPT0190
DPT0159 (1.0 U)
DPT0070 (1.0 U)
DPT0184 (1.0 U)
DPT0180 (1.0 U)
DPT0186 (1.0 U)
DPT0161 (1.0 U)
DPT0175 (9.5)
DPT0184 (1.0 U)
DPT0065 (34.5)
DPT0044 (34)
DPT0000
DPT0184 (9.5)
DPT0011 (38.4)
DPT0199
DPT0144 (17.7)
DPT0061 (7.2)
DPT0056 (1.4)
DPT0012 (15)
DPT0069 (5.2)
DPT0084 (1.4)
DPT0003
DPT0158 (59.9)
DPT0172 (27)
MW0033 (40-50) [33]
DPT0138 (9.2)
DPT0285 (13.5)
DPT0182 (1.0 U)
DPT0167 (1.0 U)
DPT0151 (37.5)
DPT0185 (1.0 U)
DPT0232
DPT0183 (170)
DPT0287 (1.60 F)
DPT0230 (94.5)
DPT0144 (7.2)
DPT0135 (37)
DPT0251
DPT0191 (370)
DPT0220 (120)
DPT0220 (140)
DPT0174 (280)
DPT0259 (73)
DPT0138 (76)
DPT0244 (590)
DPT0231 (590)
DPT0139 (910)
DPT0242 (420)
DPT0243 (270)
DPT0236 (1,200)
DPT0254 (1,200)
DPT0228 (700)
DPT0145 (720)
DPT0165
DPT0129 (290)
DPT0255 (300)
DPT0227
DPT0245 (940)
MW0031 (40-50) [200]
DPT0253 (930)
DPT0233 (170)
DPT0145 (150)
DPT0264 (2.8)
DPT0137 (1.0 U)
DPT0090 (3)
DPT0147 (1.0 U)
DPT0122 (1.2)
DPT0003
DPT0022 (3.4)
DPT0057 (157)
DPT0017 (11.6)
DPT0042 (21.2)
DPT0031 (3.3)
DPT0026 (2.6)
DPT0007 (272)
DPT0018 (270)
DPT0033 (120)
DPT0023 (3.2)
DPT0010 (2)
DPT0089 (31.4)
DPT0041 (27)
DPT0034 (15.6)
DPT0021 (3.2)
DPT0001D (3.0 U)
DPT0223 (17)
DPT0062 (3.4)
DPT0000
DPT0184 (9.5)
DPT0044 (34)
DPT0056 (1.4)
DPT0012 (15)
DPT0069 (5.2)
DPT0011 (38.4)
DPT0199
DPT0144 (17.7)
DPT0061 (7.2)
DPT0175 (9.5)
DPT0238
DPT0235
DPT0237
DPT0080 (75.8)
DPT0239
DPT0192
DPT0182 (1.0 U)
DPT0167 (1.0 U)
DPT0151 (37.5)
DPT0185 (1.0 U)
DPT0232
DPT0186
DPT0234
DPT0191
DPT0233
DPT0183 (2.2)
DPT0188 (1.0 U)
DPT0180 (1.0 U)
DPT0157
DPT0186
DPT0173 (1.0 U)
DPT0188
DPT0147 (1.0 U)
DPT0122 (1.0 U)

N

50 25 0 50 Feet

Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

VC concentration less than or equal to 1 µg/L

VC concentration greater than 1 µg/L (GCTL)

VC concentration greater than 100 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

VC concentration less than or equal to 3 µg/L

VC concentration greater than 3 µg/L (GCTL)

VC concentration greater than 300 µg/L (NADC)

1 µg/L VC Isopleth

Wetlands

Area of Subsurface Obstructions; Unable to Drill

Utility Corridor; Unable to Drill

Hot Spot 1 Area

Cleared Paths

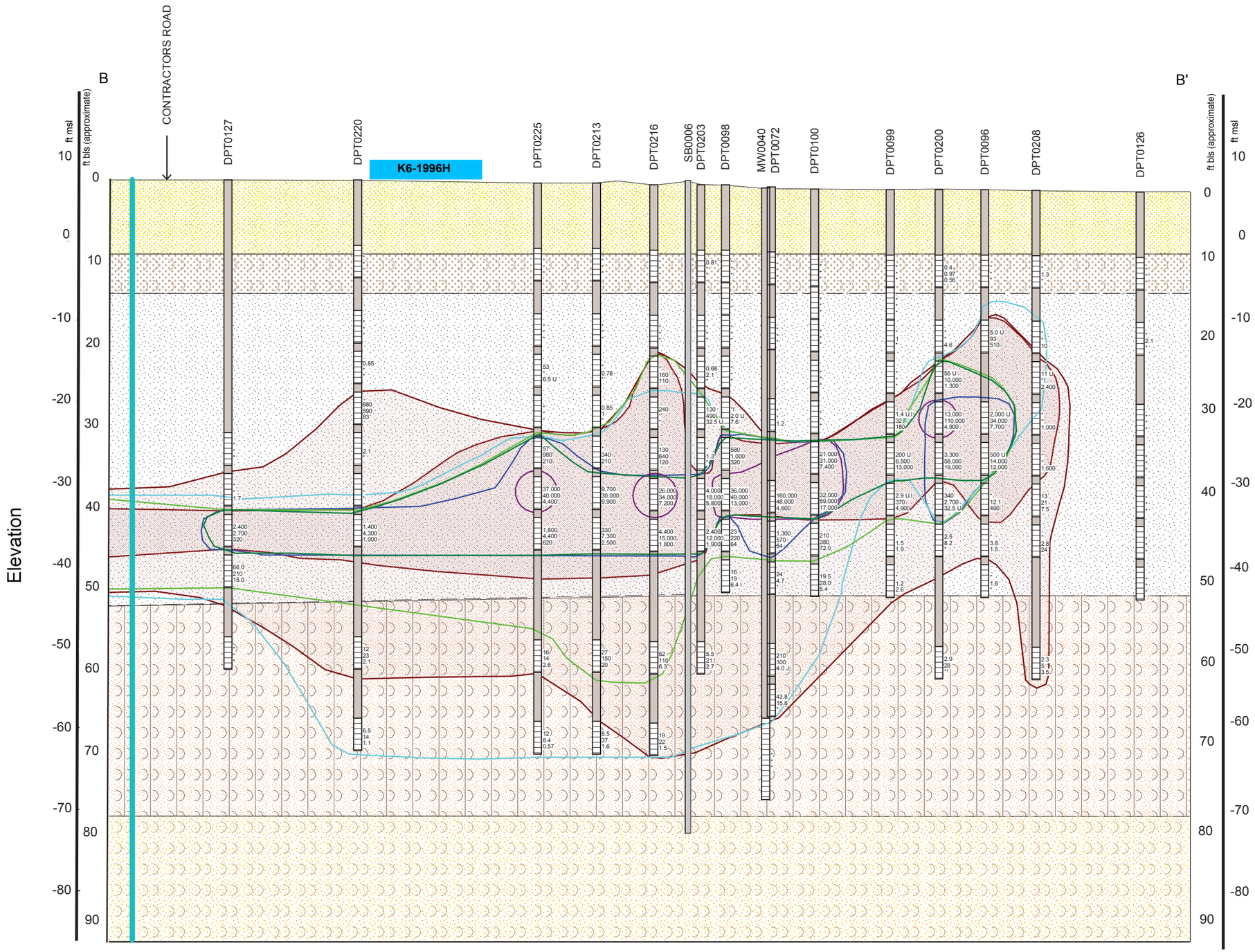
Underground Utilities

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. * indicates data for DPT0193 was used for this location.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Data presented is from the bottom depth interval for each location.
11. If result was qualified with a "U", half of the detection limit was used to generate isopleths.
12. Drilling was not possible in the Area of Subsurface Obstructions shown on this figure because of the presence of thick road base present to accommodate heavy equipment at the Site.

Contractor's Road

Path: I:\Tsundis-01\Data\T-0026\FP\161_CRHE\MXD\JUNE2013\VC_greater_than_56_fbls_JUNE2013.mxd 05 September 2013 JRB

Figure 23
CRHE Area Summary of VC Results in Groundwater Greater than 56 ft BLS



1 µg/L VC (GCTL)
100 µg/L VC (NADC)
70 µg/L cDCE (GCTL)
700 µg/L cDCE (NADC)
3 µg/L TCE (GCTL)
300 µg/L TCE (NADC)
11,000 µg/L TCE (1% Solubility)

50 25 0 50 Feet

Horizontal 1" = 50'
Vertical exaggeration is 4

Legend

Lithology Boring

Direct Push Technology (DPT) Location

DPT Groundwater Sample Location

Lithology

Medium SANDS (SP) and silty SANDS (SM) of varying color

Fine to medium SAND (SP/SW)/tan shell hash

SAND (SP) fine-grained with shell 30 - 50%

Silty SAND with varying amounts of clay and up to 10% shells

Fine silty SAND (SM) with 20 - 30% shell fragments

Inferred lithology

Hot Spot 1 Area

Approximate Building Footprint

Notes:

1. Results presented in micrograms per liter (µg/L).
2. * indicates result value is less than or equal to detection limit.
3. ft indicates feet.
4. ft msl indicates feet mean sea level.
5. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
6. I indicates reported value is between the method detection limit (MDL) and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
9. U indicates not detected above the MDL.
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.

Trichloroethene (TCE) (µg/L)
cis-1,2-dichloroethene (cDCE) (µg/L)
Vinyl Chloride (VC) (µg/L)

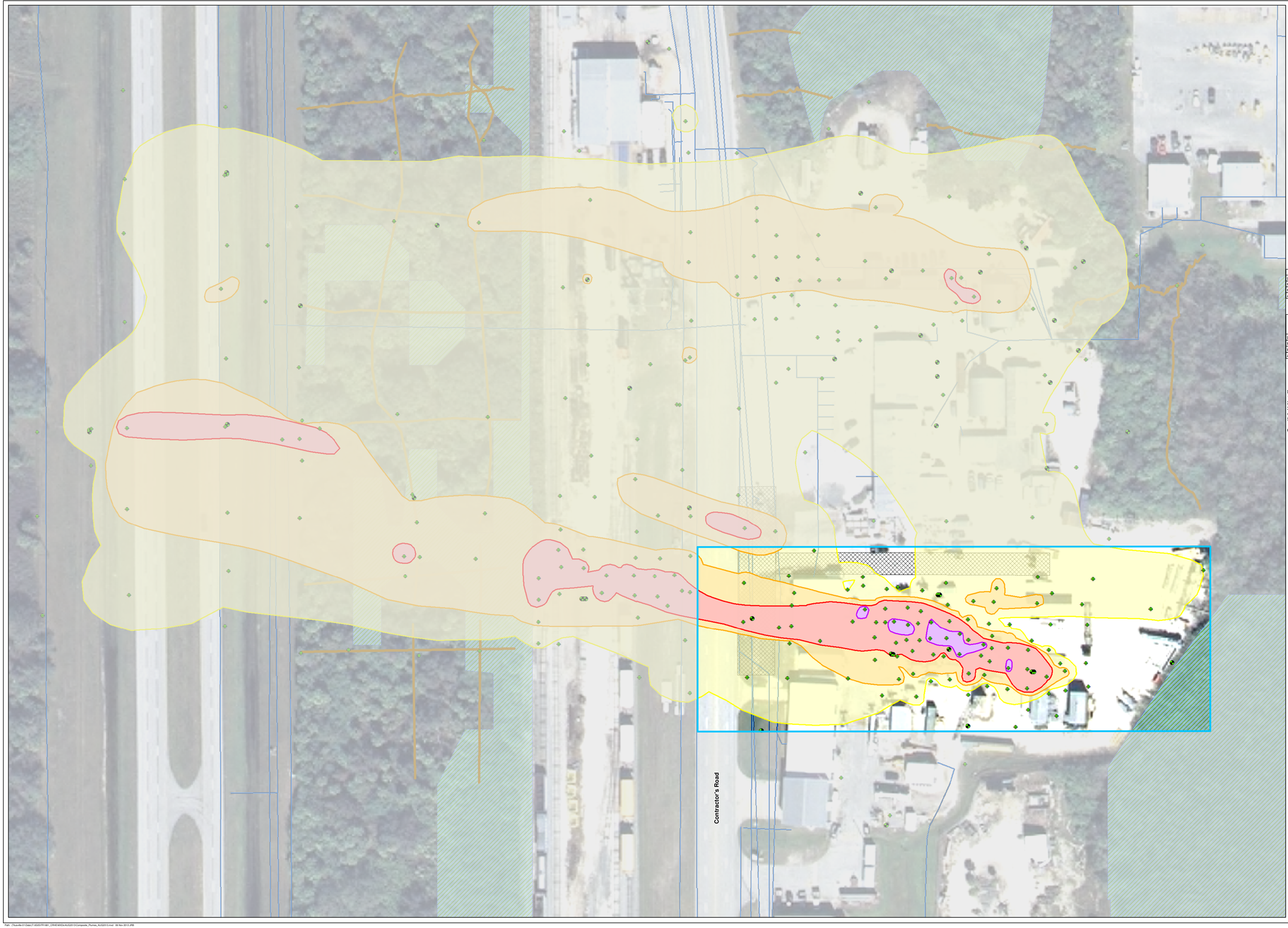
Legend

Soil Boring Location
DPT Sampling Location
Monitoring Well Location
A-A' Transect
B-B' Transect
Hot Spot 1 Area

N

90 45 0 90 Feet

Figure 24
Lithologic Cross Section B to B' and CVOC Isocontours



N

50 25 0 50 Feet

Legend

- DPT Sampling Location
- Monitoring Well Location
- Low Concentration Plume
- High Concentration Plume
- Hot Spot
- 1% TCE Solubility Plume
- Wetlands
- No Drill Area
- Hot Spot 1 Area
- Cleared Paths
- Utility Line

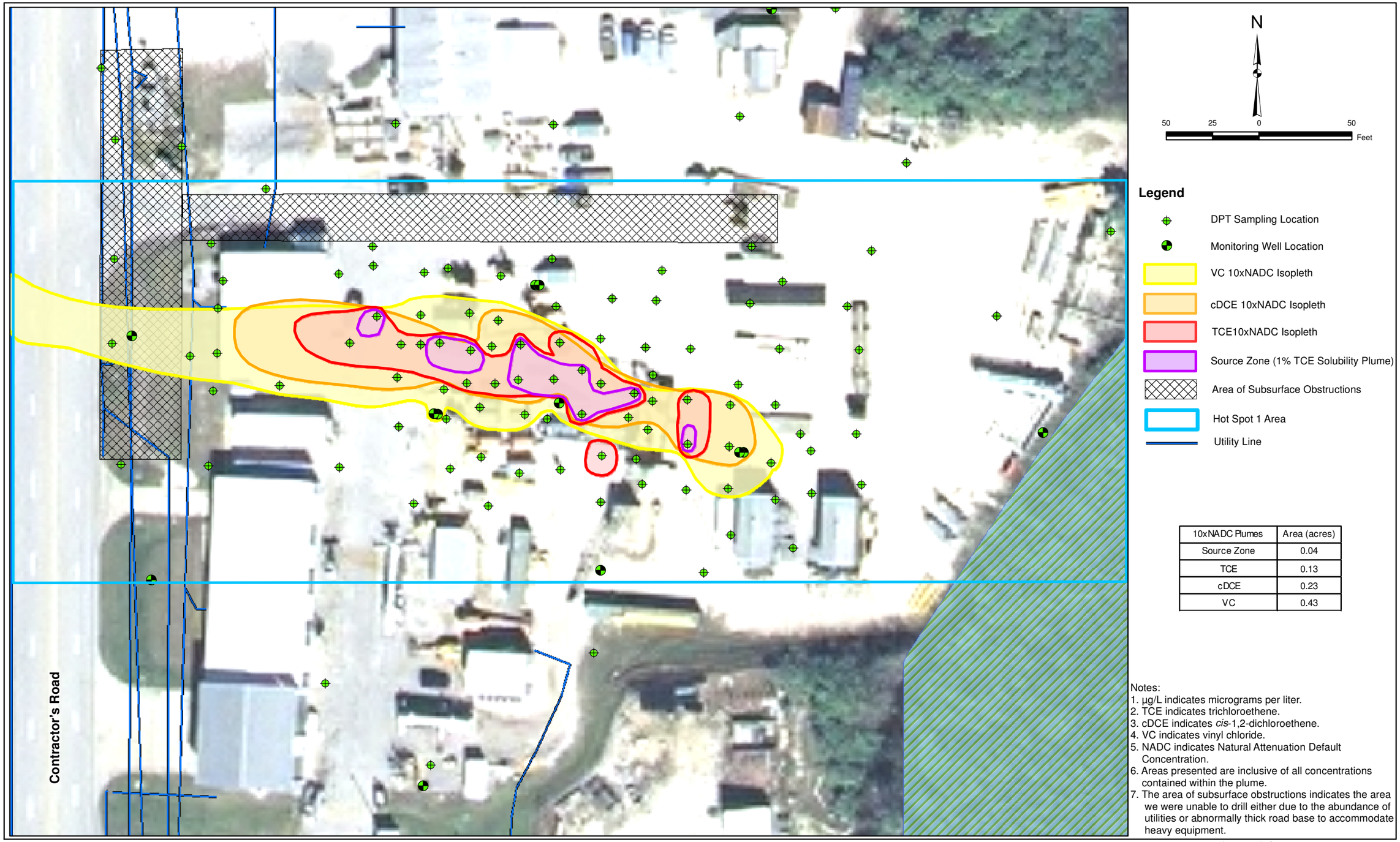
Plume	Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	15.67
High Concentration Plume (Concentrations Greater than NADC)	4.46
Hot Spot (Concentrations Greater than 10X NADC)	0.87
Approximate 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.04

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	1.99
High Concentration Plume (Concentrations Greater than NADC)	0.78
Hot Spot (Concentrations Greater than 10X NADC)	0.41
Approximate 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.04

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. GCTL indicates Groundwater Cleanup Target Level.
4. NADC indicates Natural Attenuation Default Concentration.
5. Areas presented are inclusive of all concentrations contained within the plume.
6. The no drill area indicates the area we were unable to drill either due to the abundance of utilities or abnormally thick road base to accommodate heavy equipment

Path: (Tbaustle-01\Data)\TGIS\FPR1681_CRHE\MXDs\AUG2013\Composite_Plumes_AUG2013.mxd 06 Nov 2013 JRB

Figure 25
CRHE Area Overall VOC Plumes

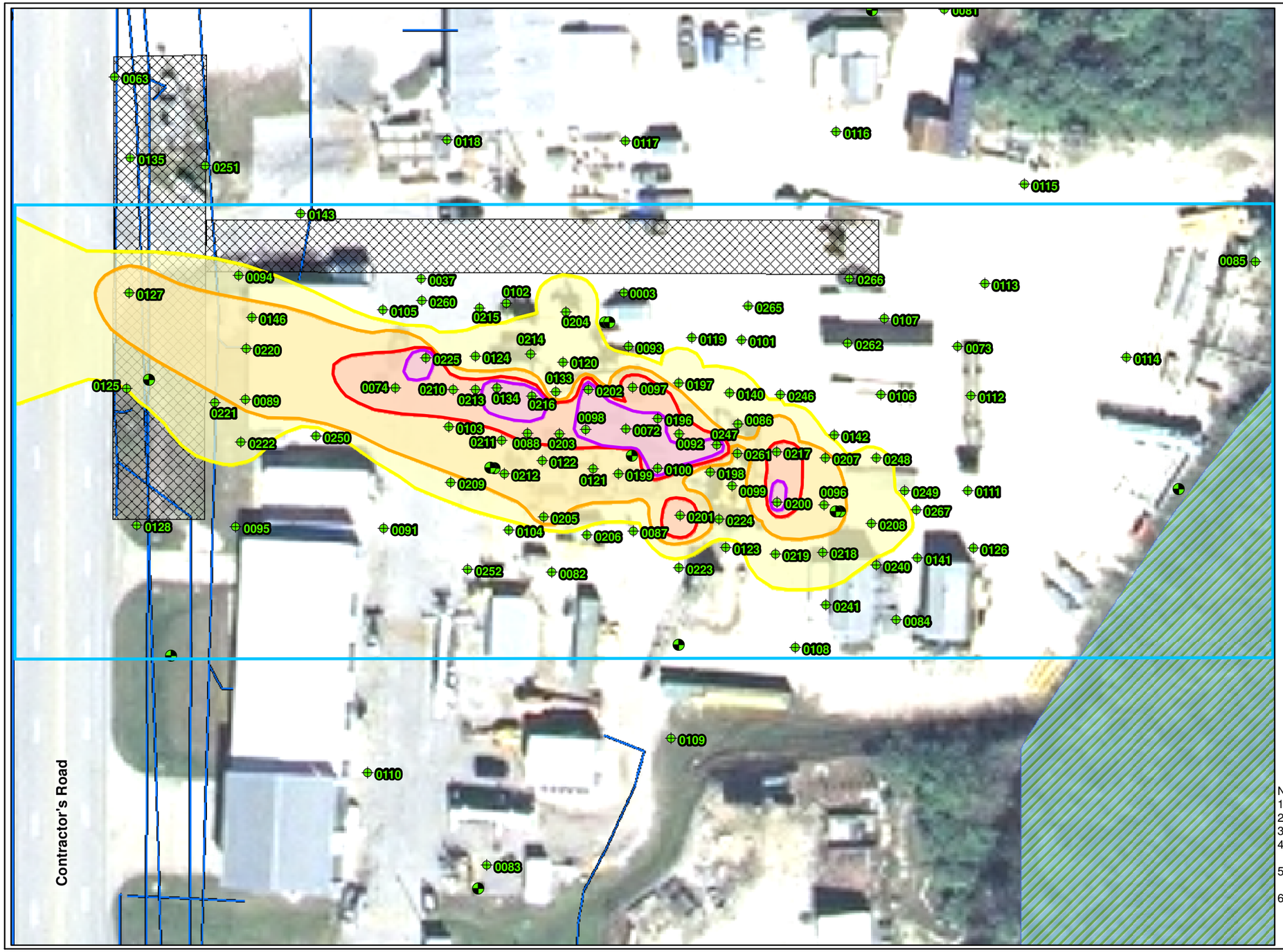


10xNADC Plumes	Area (acres)
Source Zone	0.04
TCE	0.13
cDCE	0.23
VC	0.43

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. cDCE indicates *cis*-1,2-dichloroethene.
4. VC indicates vinyl chloride.
5. NADC indicates Natural Attenuation Default Concentration.
6. Areas presented are inclusive of all concentrations contained within the plume.
7. The area of subsurface obstructions indicates the area we were unable to drill either due to the abundance of utilities or abnormally thick road base to accommodate heavy equipment.

Path: (Titusville-01\Data\)P:\0GIS\FR1681_CRHE\MXDs\JUNE2013\Overall_10xNADC_Plume_HS1.mxd 06 Sep 2013 MAH

Figure 26
CRHE Area Hot Spot 1 Overall 10xNADC Plume



TCE Plume	Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	0.79
High Concentration Plume (Concentrations Greater than NADC)	0.41
Hot Spot (Concentrations Greater than 10xNADC)	0.13
Approximate 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.04

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. GCTL indicates Groundwater Cleanup Target Level.
4. NADC indicates Natural Attenuation Default Concentration.
5. Areas presented are inclusive of all concentrations contained within the plume.
6. The area of subsurface obstructions indicates the area we were unable to drill either due to the abundance of utilities or abnormally thick road base to accommodate heavy equipment.

Path: (Titusville-01\Data\P:\0GIS\FR1681_CRHE\MXDs\JUNE2013\Overall_TCE_Plume_HS1.mxd 05 Sep 2013 MAH

Figure 27
CRHE Area Hot Spot 1 Overall TCE Plume

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MEMORANDUM

Date:	3 December 2013
To:	Anne Chrest
Copies to:	NASA Remediation Team
From:	Jill Johnson, P.G. and Rebecca Daprato, Ph.D., P.E.
Subject:	Contractor's Road Heavy Equipment Area (CHRE) (SWMU055) Step 1 Engineering Evaluation – Hot Spot 1 – Response to Comments

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Comments on the October 2013 Step 1 Engineering Evaluation – Hot Spot 1 ADP have been reviewed and responses, where applicable, have been provided for reference below. The comment is listed first and Geosyntec's responses are listed in italics below the comment.

Tetra Tech Comments:

Tetra Tech generally concurs with the information presented in the Contractor's Road Heavy Equipment (CRHE) Area Step 1 Engineering Evaluation – Hot Spot 1 ADP, except where noted within the following comments:

Section A

1. Slide 16 – The water level MW0024 does not appear to be consistent with the expected potentiometric surface nor do the plumes appear to mimic the easterly directional divide. Is there a suspected cause for the groundwater divide in the region of this well to result in the significant easterly component? Please confirm if this is an anomaly and if MW0025 may be hydraulically communicating with MW0024.

   Response: Historically we have observed the shallow groundwater to be influenced by the wetlands that are to the north, east, and west of the site. Therefore, the easterly groundwater flow in the shallow zone is not unexpected.

   Based on the lithology, it is possible that there is a hydraulic connection between monitoring wells MW0025 and MW0024. Monitoring well MW0024 is partially screened in the same unit as monitoring well MW0025 (fine grained sand with shell unit).

During evaluation of this comment, it was discovered that some of the groundwater elevations referenced NGVD29 and some NAVD88. The groundwater elevations have been updated to all reference NAVD88 and updated groundwater elevation maps are included.

2. Slide 22 – TCE mass consistently seems concentrated from 36 to 45 feet bls. Are there any lithologic or geotechnical variations in this zone that resulted in the majority of mass in this depth interval? Discussion of the site conceptual model from a mass and lithologic standpoint would be a beneficial addition to the CHRE Step 1 EE and downstream remedial decision making.

   Response: The conceptual site model will be discussed from this perspective during the ADP presentation. The lithology borings and MIP log correlate and show a change in lithology at approximately 50 ft BLS. The FID, ECD, and PID results from the MIP log and the DPT sampling results show a majority of the mass is present from 36 to 45 ft BLS. Reviewing the soil boring logs shows that between 30 and 40 ft BLS at the site, the lithology transitions from a sand with ~30% shell to sand with ~50% or more shell. Similar to other sites, the primary high concentration interval maybe associated with an interval of silty sand that is not visible to the eye.

3. Slide 27 – Elevated TCE results are present in DPT0196, 0202, 0225, and 0247 within the 41 to 45 feet bls sampling interval, and these locations were not sampled within the 46 to 50 feet bls interval. Please confirm if this is a vertical data gap since a sampling point is not present between 45 to 56 feet bls with moderate detections from 56 to 60 feet bls.

   Response: We do not feel that this is a data gap. There is a high density of data in each depth zone in HS1, although, as identified, toward the end of the sampling effort, sampling intervals were focused based on the previous results. Also, sampling at depth in these locations was discontinued because of the concern for dragdown and with the understanding that a vertical delineation well would be installed and sampled (MW40).

4. Slide 41 (EVS) – When viewing the plume intervals, it is difficult to interpret the internal zones (e.g., Hot Spot and Source Zone) due to the large thickness of the data points. Suggest minimizing or showing as a discrete point within the middle of the sample interval. Review of the Source Zone in EVS was not completed due to this interference. Additionally, the deep interval bottom does not appear to be vertically delineated via EVS visual inspection.

Response: The EVS models were revised several times with this concern in mind. The EVS model was provided for each constituent of concern with the focus on the hot spot area 1 area only, and then with the entire site shown. The locations with the concentrations less than the GCTL were made transparent in order to make the area with high concentrations easier to view. We do not feel it is necessary to revise the EVS model. Additionally, the source zone was delineated with a permanent deep well (MW40) near the highest observed TCE concentrations at the site.

5. Slide 43/44 – Tetra Tech does not agree with the methodology used for the mass calculation and the interpretation of the site conceptual model. The mass is also not in agreement to the previous Step 1A EE presented for the site. Applying an average concentration over the entirety of the plume area and not within specific isoconcentration intervals does not seem appropriate. The averaging methods used appear to have resulted in a misrepresentation of an average concentration and mass that is skewed low. Based on the information provided within the Step 1 EE, we would anticipate the TCE mass to be higher. Please revisit the mass calculation and revise the Part B technology screening as a result of the revision, where appropriate.

   Response: The mass calculation was performed using two different methods, both of which used the average concentrations for the specific isoconcentrations e.g., NADC >COC>GCTL, 10XNADC>COC>NADC. One was performed by depth interval and one for the overall plume (as concentric rings not averaged over the entirety of the plume). The average concentrations presented were calculated by hand and by EVS. The mass calculations consistently documented a similar mass estimate within the same order of magnitude. We believe the multiple approaches used and similarity in results provides a reasonable estimate of mass. No revisions are warranted.

6. Slide 47 – The VC Hot Spots generally do not appear adequately delineated. Please discuss in additional detail.

   Response: This comment has been resolved and retracted because the focus of this ADP is limited to HS1.

7. General Comment – Was 1,4-dioxane sampled at CRHE? If so, please include in ADP.

   Response: Select site monitoring wells were sampled and analyzed for 1,4-dioxane in 1997. The sample results were all non-detect (500 U and 2,500 U µg/L), but with detection limits greater than the FDEP GCTL (3.2 µg/L). It is proposed that samples collected from the wells that will be sampled to collect additional data to evaluate

bioremediation (MW0025, MW0029, MW0035 and MW0019I) will be analyzed for 1,4-dioxane.

Section B

1. Slide 58 – Given the suspected under allocation of mass at CRHE, we do not concur to the Source Zone remedial technologies retained until the contaminant mass calculation and distribution is revised and redistributed to the team.

   Response: See response above, additional information was provided regarding the mass calculations. We believe that the information presented is certainly adequate to make a decision regarding retained remedial technologies.

Jacobs-CORE

The Step 2 Engineering Evaluation advance data package (ADP) for the Contractors Road Heavy Equipment Area (CRHE) Hot Spot 1 (HS1) meets the requirements of the Remediation Team's Engineering Evaluation Process document. Based on review of the ADP, the Jacobs-CORE team concurs with the information and evaluation presented in the CRHE Step 1 (A and B) Engineering Evaluation ADP. The following specific comments were presented for consideration:

Section A

1. Slides 13 and 14 – There are three soil borings used to generally describe the lithology across the southern portion of the plume (which includes HS1). Only one of these soil borings is within HS1, and it is primarily down gradient (west) of the highest levels of TCE. Consider adding at least one soil boring east of SB0006 and DPT0072 to ensure the entire area where DNAPL could be present is adequately characterized from a lithology perspective. It would be advantageous to understand in more specific detail the interval between 35 and 50 ft, particularly in evaluating source area treatment technologies.

   Response: Although it is true that only one soil boring is within the HS1 area, there were a total of seven lithology borings advanced across the entire site to characterize subsurface lithology. The lithology collected at the site to date and presented in the HS1 ADP was generally consisted and is adequate for meeting the objectives of the Step 1 EE; however, we agree that potentially collecting additional, focused lithology data in the selected remedial area depending on the selected remedy may be useful. This additional data can be gathered before the remedy is implemented.

2. Slides 13, 14, 24, and 42 – The lithology description shows a fairly consistent fine-grained sand and shell layer from approximately 12 to 50 ft bls; however, the highest levels of TCE are shown in the 36 to 40 ft bls depth range. This indicates something pertinent in or just below this zone, which could be holding DNAPL, and that is discussed on Slide 42. Should that be shown on the lithology drawing (Slide 14)? Again, more detail of this interval would be beneficial in planning and executing any technology which targets the source zone.

   Response: The lithology presented on the cross section (Figure 1) is generalized and the surfaces for lithology transitions were correlated. See response to Tetra Tech comment #2. In SB0006, there are changes in the ratios of sand, shell and clay at 35, 41, and 51 ft BLS. As discussed in a previous response, depending on the selected remedial options, it may be useful to collect additional, focused lithology information in this zone.

3. Slide 17 – The shape of the plume generally provides good confirmation of the gradient and gradient trends at a site. The CRHE intermediate groundwater flow map shows a fairly strong southerly component that does not correlate well with the plume configuration. Could the MW0029 measurement be incorrect (possibly a damaged well)?

   Response: It does appear that monitoring well MW0029 is controlling the groundwater flow direction, but we feel this is based on the limited number of water levels that were collected, since this effort was focused on Hot Spot 1. There was no damage observed to the well during the water level collection.

4. Slides 26 and 44 to 46 – Minor comment, but from a remediation perspective it seems prudent to assume that the area between DPT0098 and DPT0216 is above 1% solubility (contoured purple). The same could be considered for the area between DPT0247 and DPT0196, along with the area between DPT0134 and DPT0225. Again, this is just from a remediation perspective based upon the potential error in sampling in these high concentration areas, but it affects the SZ area shown on Slides 44 – 46, and also would affect the size and planning of any SZ remediation alternative.

   Response: We concur that the 1% solubility areas could be combined into one area for the purposes of the Step 2 and Step 3 EE.

5. Slides 43 and 44 – Both slides note that DNAPL mass was not considered in estimating contaminant mass. What is the rationale for excluding DNAPL from the mass estimate? Consider developing mass estimates for the SZ and HS independently (including DNAPL mass), then adding those to the gross average of the remaining HCP and LCP.

Response: The note on the slide was intended to indicate that a specific quantity of DNAPL product at a 12.2 lb/gallon density was not considered to occupy some assumed fraction of pore spaces over some assumed area and assumed thickness (consistent with other mass estimates conducted at KSC). We considered the sorbed mass partitioned fraction to account for DNAPL (ganglia and/or limited sorbed form present). Estimating the DNAPL mass at a site is difficult, even with high resolution soil and groundwater sampling data (no soil sampling has been performed at this site). If it is assumed that the DNAPL occupies 0.01 to 0.1% of pore space (of 1% solubility area), there would be approximately 0.45 to 4.5 gallons of TCE DNAPL, which is approximately 5.5 to 55 lbs of DNAPL. Regardless of the absence/presence and/or form the DNAPL is in at the Site, the overall mass estimate provides a reasonable order of magnitude estimate of mass likely present at the Site.

Section B

1. Slide 53 (SZ Technology Screening) – Regarding elimination of LDA as an alternative. True that the SZ area is small which could make it cost prohibitive for LDA, but this area is totally accessible and, considering the performance of LDA projects locally that have shown >95% efficiency over time, it may be worth considering since the likelihood of enhanced effectiveness could out-weigh the negative aspect of a higher cost. At a minimum, it would be nice to understand the costs associated with LDA compared to other technologies, especially considering the performance.

   Response: We do not feel that LDA is an appropriate technology for this site based on the following: (i) the technology is better suited for source zones with significant DNAPL mass and mass stored in low permeability zones; (ii) access at the site is difficult due to buildings and storage of large pieces of equipment and conex boxes; and (iii) settling at the site after LDA implementation could result in damage to buildings or loss of storage area for the facility.

2. Slide 53 (SZ Technology Screening) – Air Sparge Retained: It is evident that there is a low permeable zone somewhere around 40 ft bls which is possibly holding DNAPL. Will Air Sparging be able to effectively permeate through this zone and access the source mass that may be dispersed in diffusion limited zones? This has historically been an issue with sites that rebound following the use of pump and treat and air sparge technologies. If you have already compared the CRHE lithology to other sites where Air Sparging is effective and found that the CRHE lithology is favorable, a statement to that effect would be helpful. If not, the additional lithologic boring suggested above would be helpful, or consider whether a pilot test is needed.

<u>Response</u>: The lithology borings collected at CRHE did not indicate any low permeability zone above approximately 50 ft BLS. We do believe that air sparging will effectively treat the mass at this site, if the system is installed and operated properly. Additional soil borings can be collected as part of the Step 3 EE to assure the sparge screens are set in the appropriate locations.

3. Slide 58 – Air Sparge and Bioremediation are listed as scalable to larger treatment areas. Please confirm that other combined technologies, such as EZVI and Bioremediation, will also be looked at for scaling to larger zones.

<u>Response</u>: EZVI was only going to be evaluated in the area with TCE concentrations greater than 1% solubility EZVI will not be considered for scaling to larger zones due to the elevated cost which would be anticipated in a larger area.

* * * * * *

APPENDIX D

STEP 2 FOR HS1
ENGINEERING EVALUATION ADP
(electronic copy only)

Geosyntec consultants

Contractor's Road Heavy Equipment (CRHE) Area (SWMU055)

Step 2 Engineering Evaluation – Hot Spot 1

February 2014

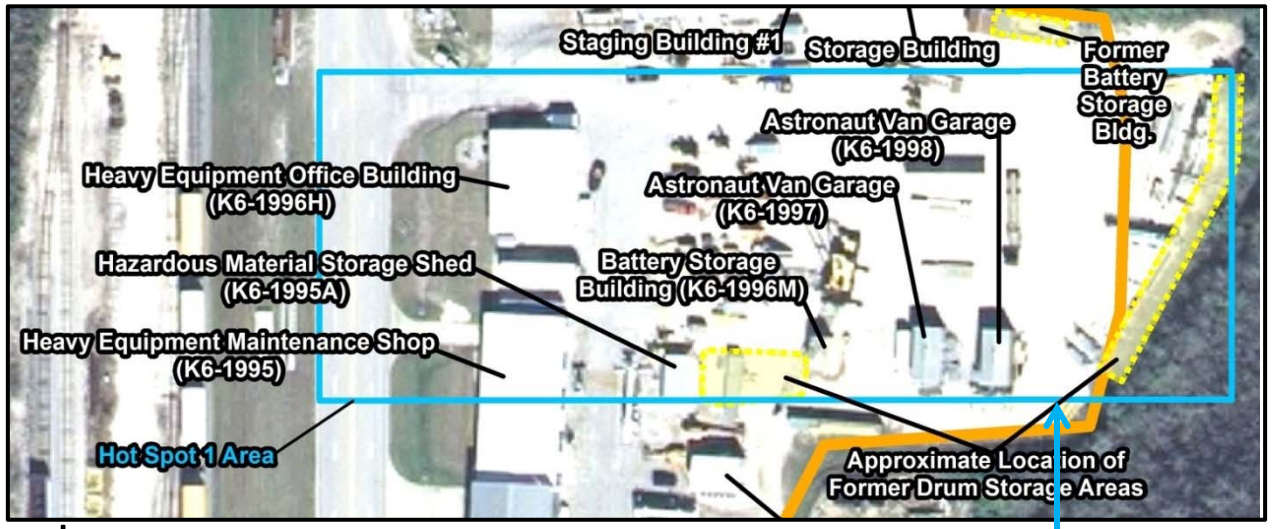
Presentation Outline

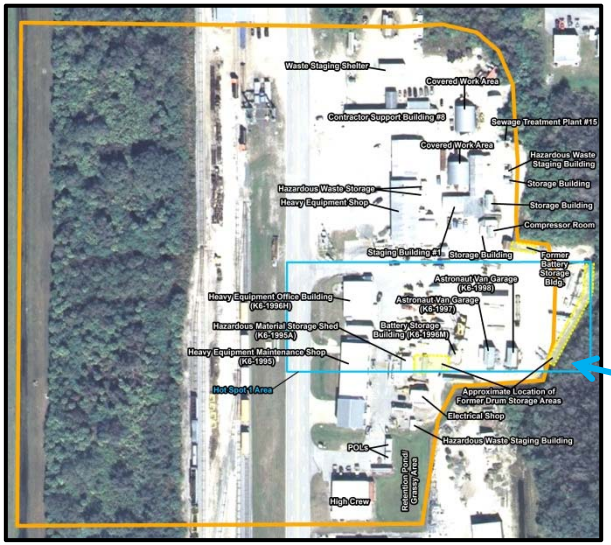
- Site history and background
- Summary of Step 1 Engineering Evaluation (EE)
- Data gaps
- Technology evaluations
- Recommendations and proposed path forward

Site History and Background
Site Location

Site History and Background
Site Overview

- HS1 features:
  - About 3 acres
  - Paved and gravel
  - Underground utility corridor east of Contractor's Road
  - Thick road base in northern part of HS1
  - Overall 10xNADC Plume runs beneath K6-1996H and Contractor's Road
  - Heavy equipment (up to 300,000 lbs) transported and stored in the area



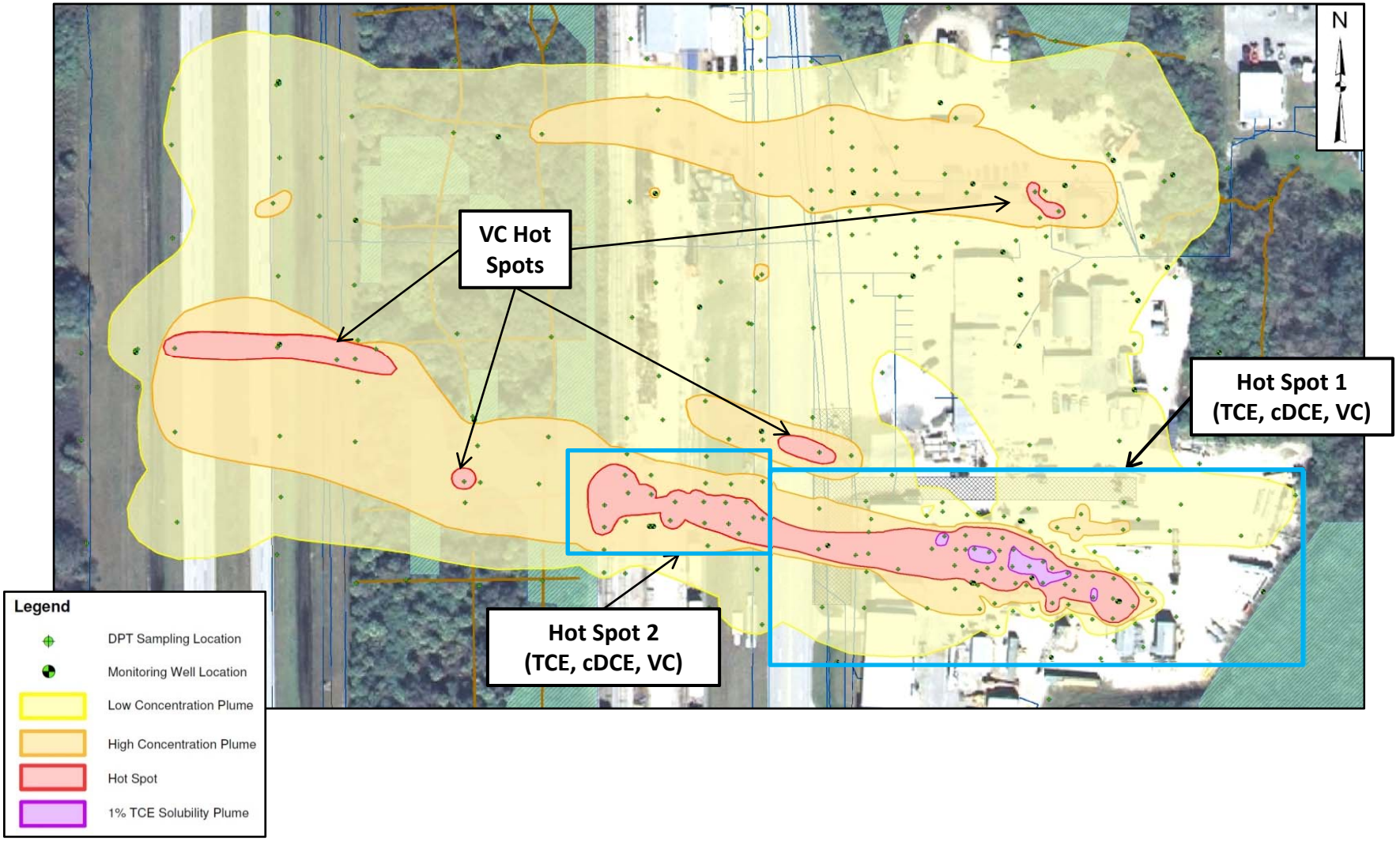


Hot Spot 1 Area

Site History and Background

- 1994: Preliminary assessment (EG&G, Inc.)
- 1997-1999: RFI (HSW, Inc.)
- 2000: Corrective Measures Study (CMS) (HSW, Inc.)
- 2000 – 2005: Semi-annual groundwater sampling in 7 wells
- 2005 – 2009: Site incorporated into VAB LTM program
- 2010 May: Discontinued LTM until assessment is complete
- 2009 – 2013: Supplemental site assessment
- 2012 June: Site-wide Step 1 EE
  - Additional sampling recommended and is on-going
- 2013 December: Hot Spot 1 Step 1 EE
  - Source Zone (TCE greater than 11,000 µg/L – 1% solubility): recommended evaluation of bioremediation, emulsified zero valent iron (EZVI), and air sparge/soil vapor extraction (AS/SVE)
  - Overall CVOC 10xNADC Plume: recommended evaluation of Bio, EZVI with Bio, and AS/SVE

Site History and Background
Overall Site and Identification of Hot Spots



Goals of Presentation

- Goals of Presentation
  - Present Step 2 Engineering Evaluation
  - Obtain team consensus on treatment area (Overall 10xNADC or Source Zone) and technology for Interim Measures (IM)

Hot Spot 1 Step 1 EE Summary
Lithology Cross Section

Approximate location of western portion of HS1

A

A'

SB0005

SB0007

SB0006

Elevation

Medium sand (SP) and silty sand (SM)

Fine to medium sand (SP/SW) with shell hash

Fine-grained sand (SP) with 30 to 50% shell

Silty sand (SM) with clay and up to 10% shells

Fine silty sand (SM) with 20 to 30% shell fragments

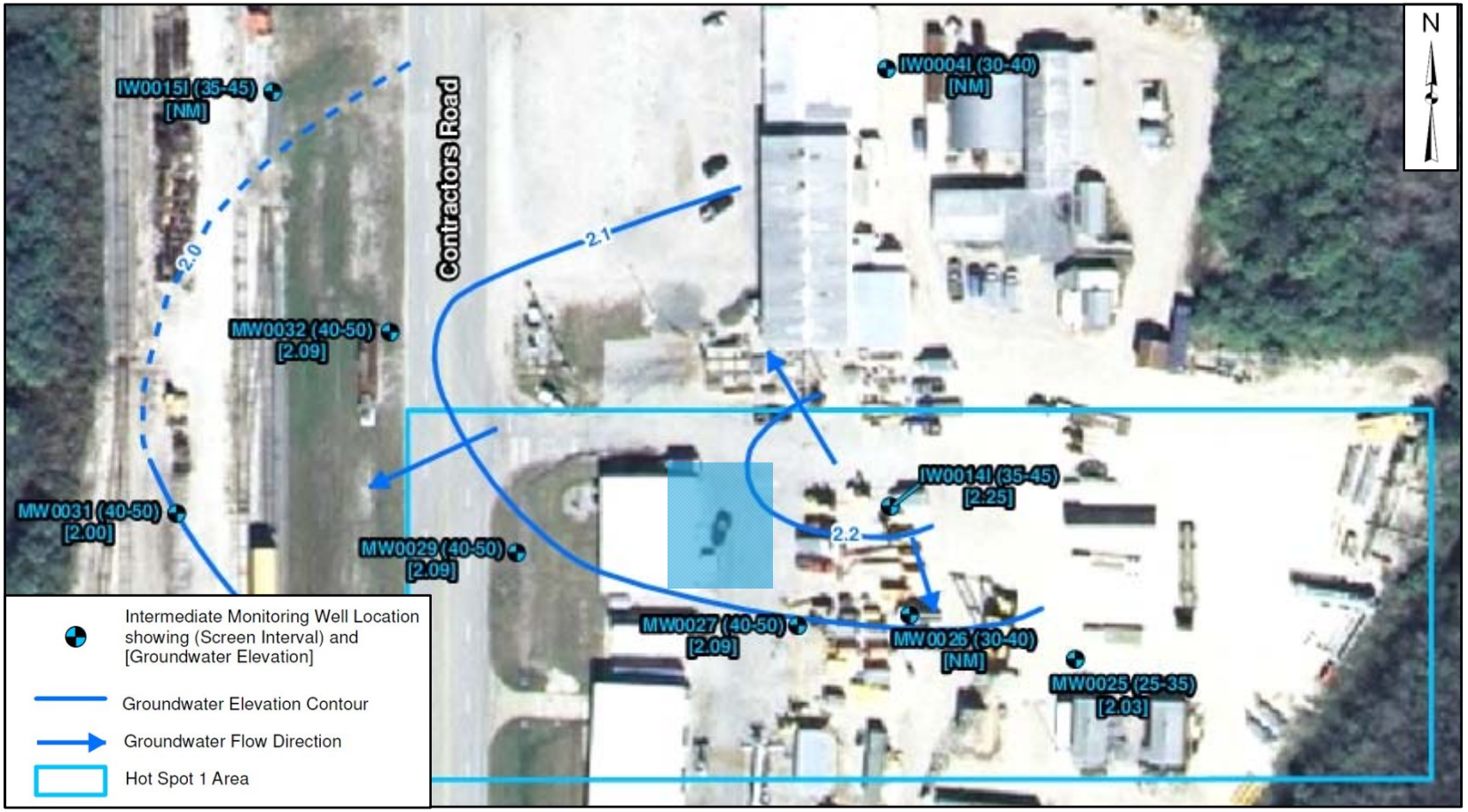
Hot Spot 1 Step 1 EE Summary
Groundwater Flow and Hydraulic Conductivity

- Groundwater flow in the intermediate zone is generally to the west
- Depth to groundwater ranges from 2 to 6 ft BLS
- Hydraulic conductivity (K) is 7.6 ft/d (2,774 ft/yr) - from specific capacity tests on shallow and intermediate wells during RFI

GW Zone	Approximate Depth (ft BLS)	Average Gradient (ft/ft)	Estimated GW Flow Velocity (ft/y)
Shallow	<15	0.002	28 ft/y*
Intermediate	15 to 55	0.005	69 ft/y*
Deep	>60	0.002	--

* Actual groundwater flow velocity is likely highly variable with higher K plume transport intervals and lower K mass storage intervals.

Hot Spot 1 Step 1 EE Summary
Groundwater Flow and Hydraulic Conductivity



Note:

1. Screen interval is presented in feet below land surface (ft BLS).
2. Elevation is presented in ft and is referenced to the North American Datum of 1988.

Hot Spot 1 Step 1 EE Summary Delineation Summary

- Impacts generally from 8 to 50 ft BLS
- Max concentrations (µg/L)
  - TCE = 160,000 (DPT72, 36 to 40 ft BLS)
  - cDCE = 110,000 L (DPT200, 26 to 30 ft BLS)
    - L indicates the value exceeded the calibration range
  - VC = 19,000 (DPT200, 31 to 35 ft BLS)
- SZ contaminant mass is mainly 30 to 46 ft BLS (60% of mass in that zone within 36 to 40 ft BLS)
- Lithology
  - primarily sand until ~45 to 50 ft BLS (based on visual observations, MIP data, and DPT data)
  - below ~45 to 50 ft BLS, lithology is silty sand, with varying amounts of clay (semi-confining layer)
- Summary maps presented in ADP – Step 1 EE attached as reference which includes all CVOC interval maps

Hot Spot 1 Step 1 EE Summary
TCE Plume

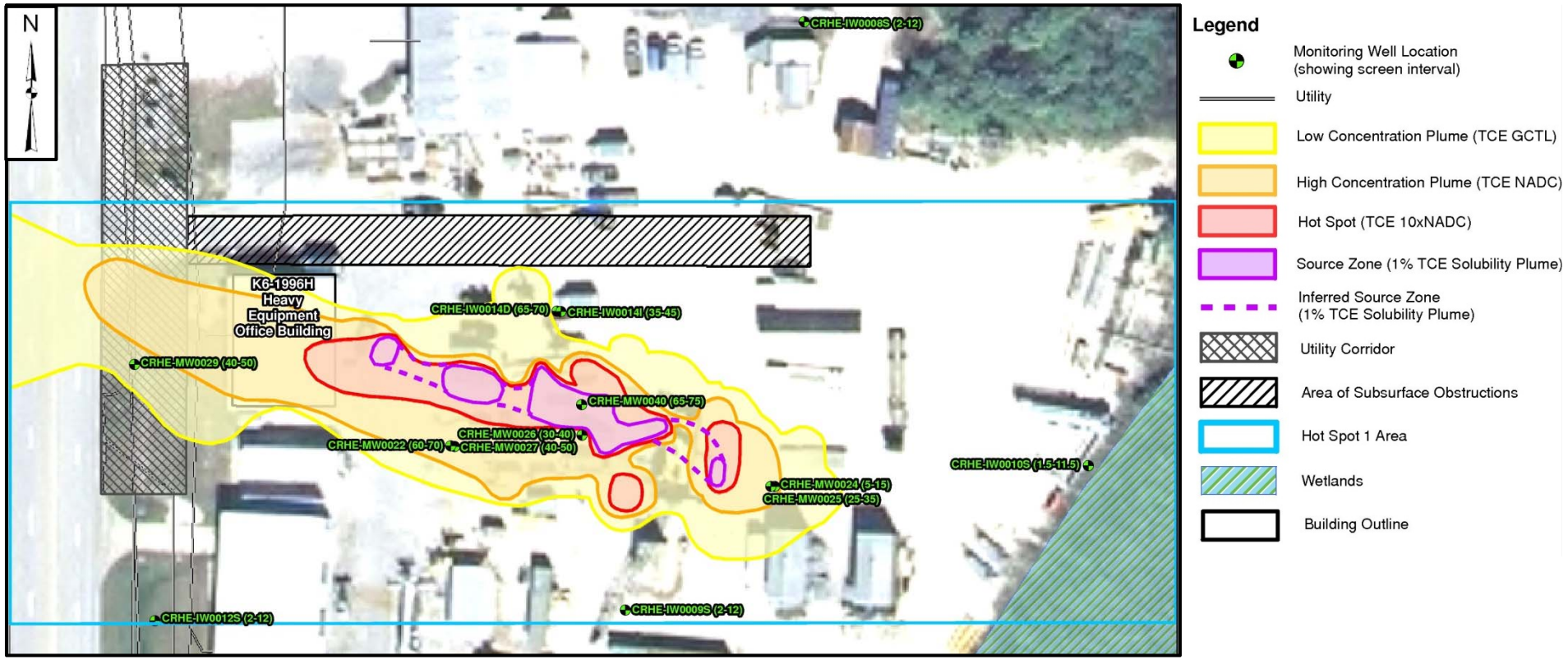


Figure 1

- The Source Zone (SZ) is defined as the area with TCE greater than 1% solubility (11,000 µg/L)
- Inferred SZ contour creates a single, more conservative SZ evaluated for treatment in consideration of likely subsurface distribution

Hot Spot 1 Step 1 EE Summary
10xNADC Plumes

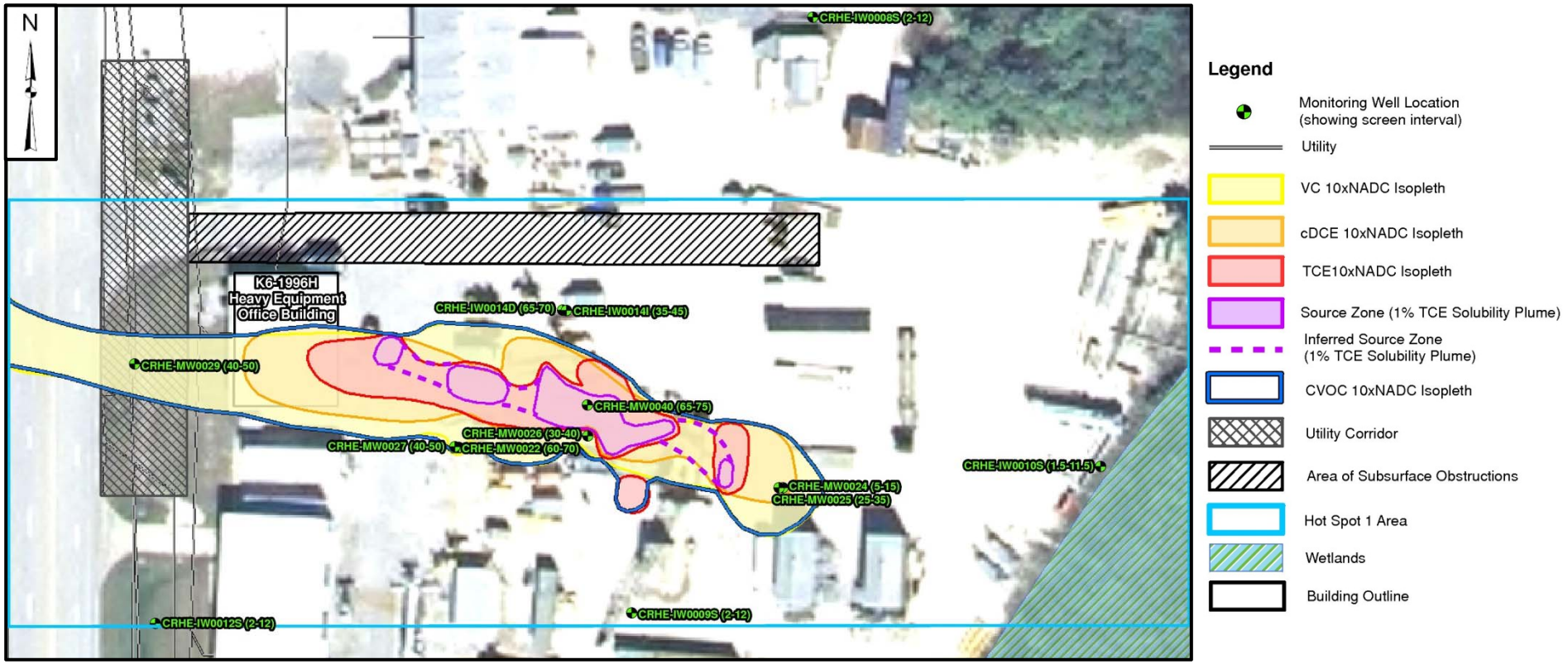
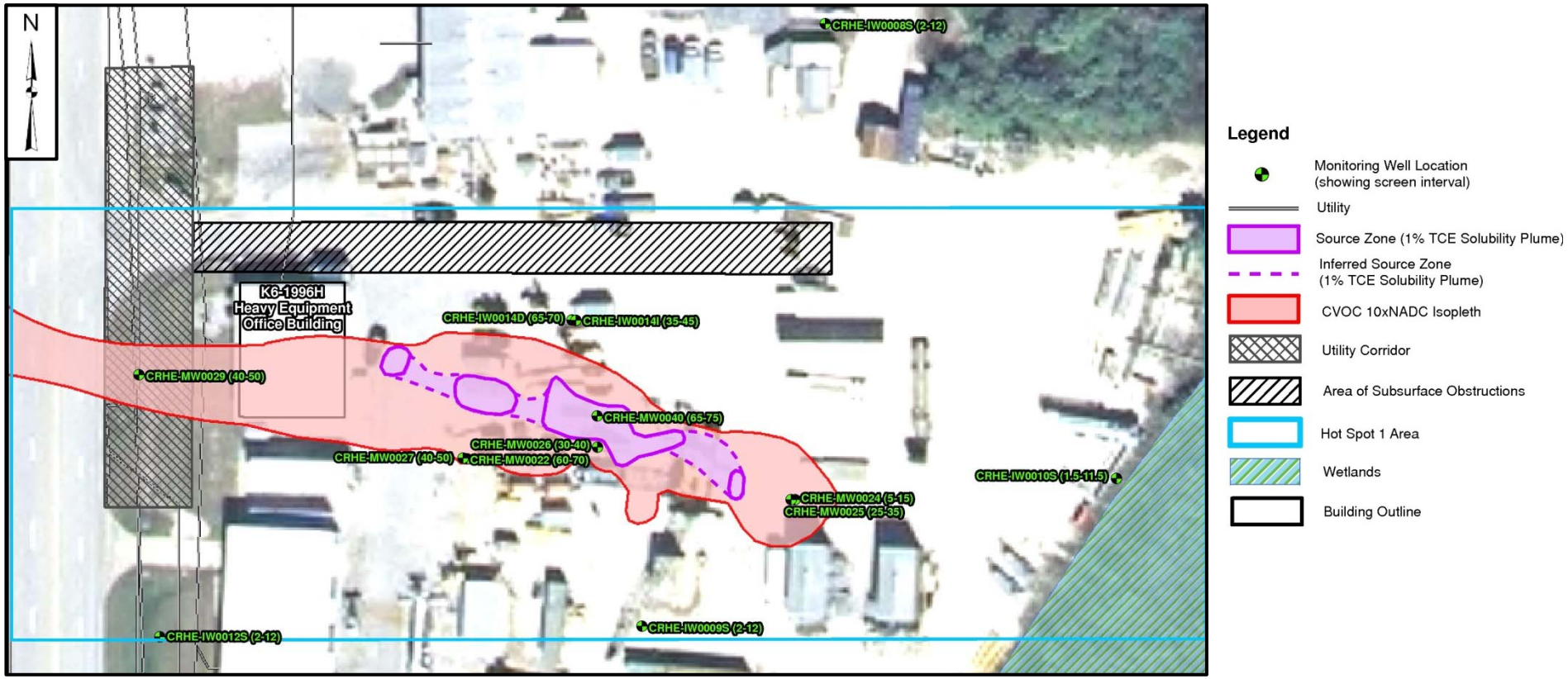


Figure 2

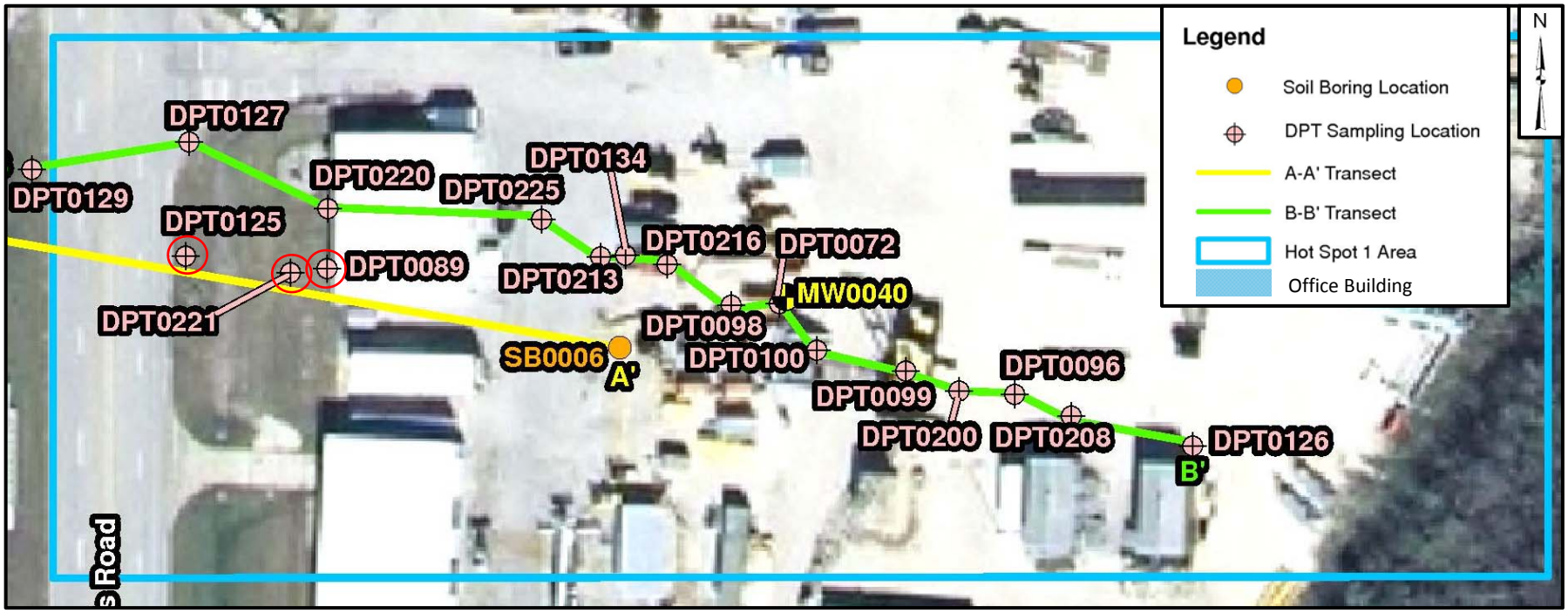
Hot Spot 1 Step 1 EE Summary
Overall 10xNADC Plume and Source Zone



- 10xNADC Plume is the area with TCE, cDCE, and VC greater than 10xNADC

Figure 3

Hot Spot 1 Step 1 EE Summary
Cross Section Plan View



Hot Spot 1 Step 1 EE Summary
CVOC Cross Section

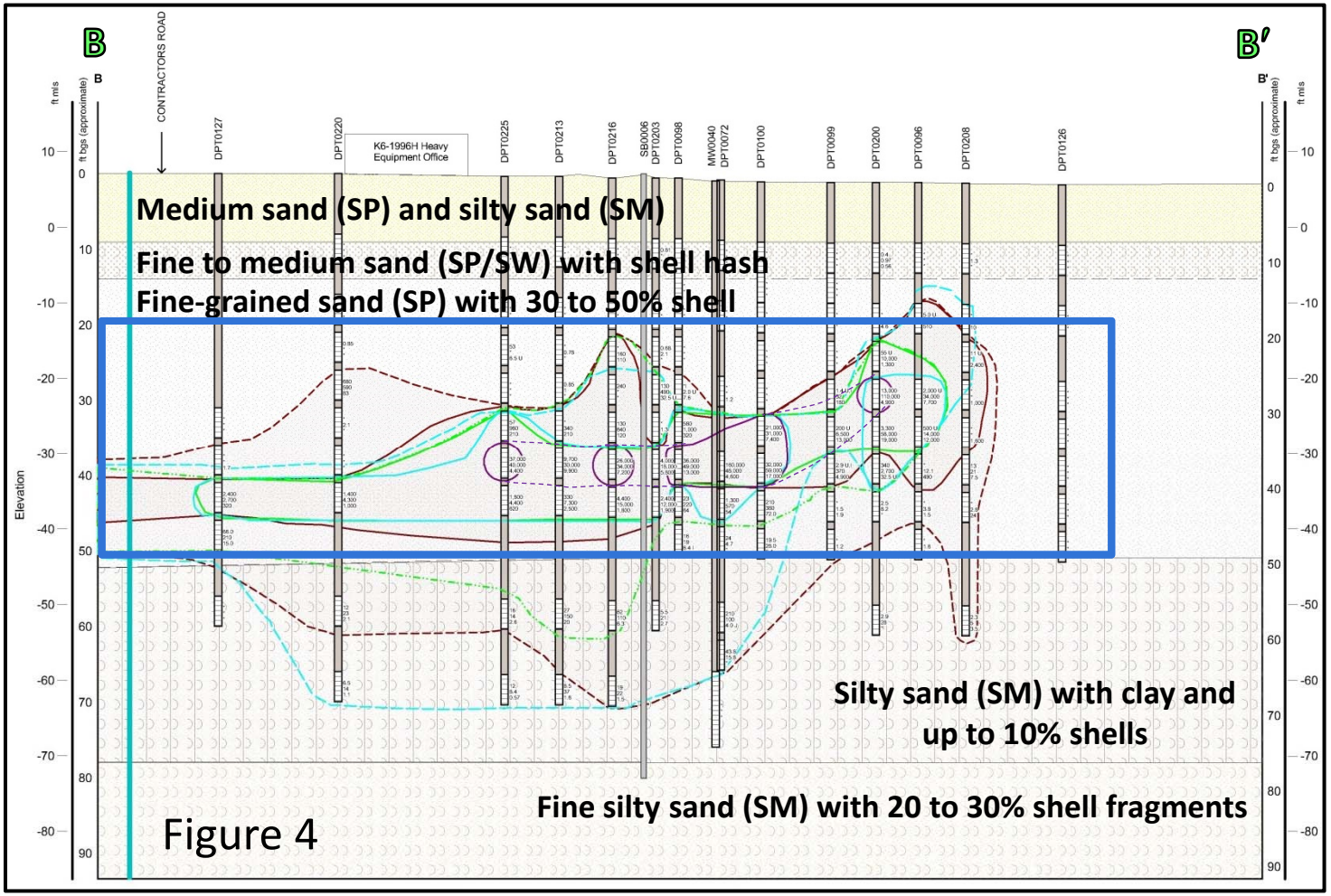


Figure 4

1 µg/L VC (GCTL)
100 µg/L VC (NADC)
Source Zone (1% TCE Solubility Plume)
70 µg/L cDCE (GCTL)
700 µg/L cDCE (NADC)
3 µg/L TCE (GCTL)
300 µg/L TCE (NADC)
Inferred SZ Plume

Approximate treatment interval

Hot Spot 1 Step 1 EE Summary – Cross Section
Overall 10xNADC Plume and Source Zone

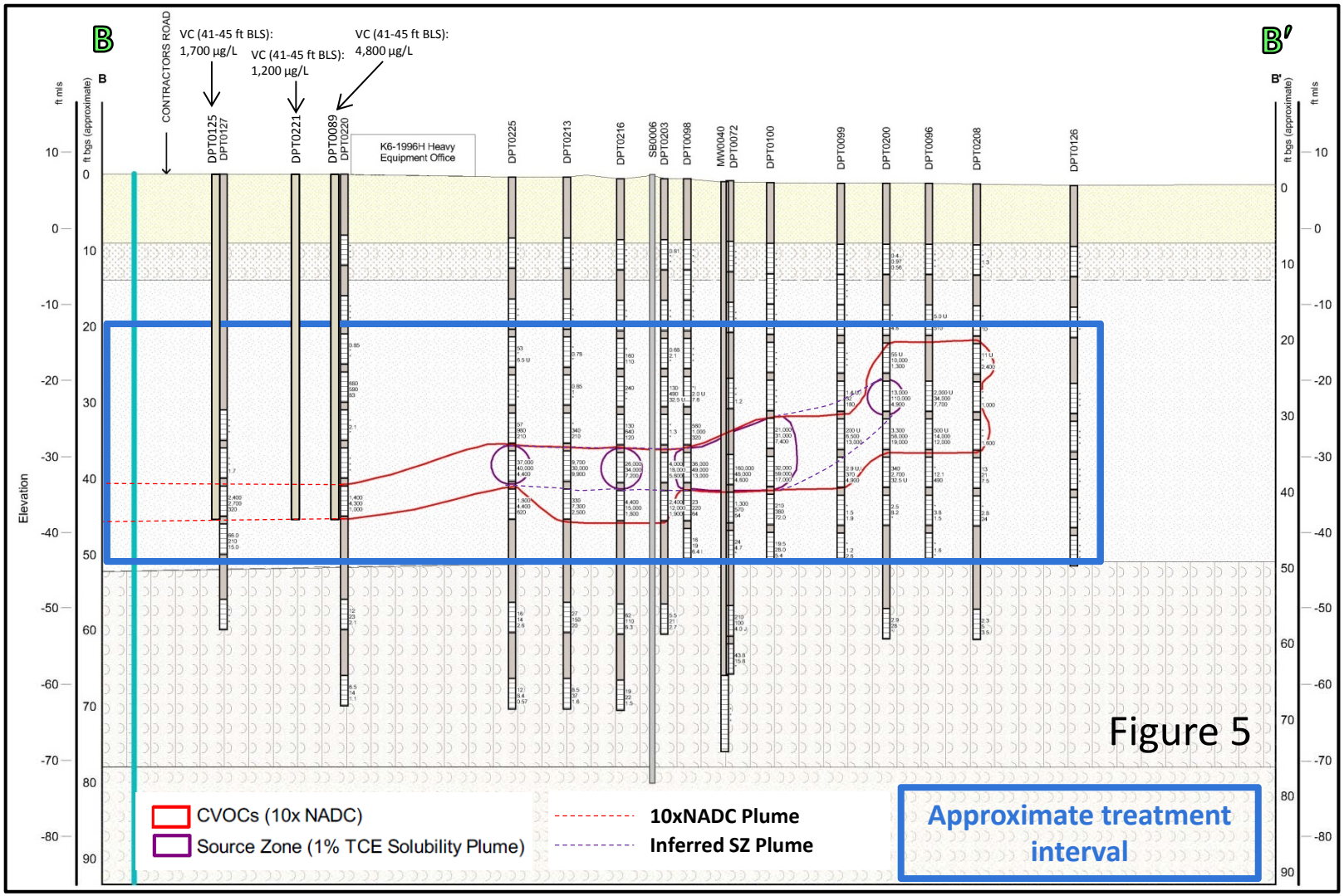


Figure 5

Response to Comments

TT Comment #1: Slide 16,17 – The inferred source zone is not indicated on the cross section, as it is on the plan view drawings. We suggest that the source zone interpretation also be applied to the cross sections within the Step 2 EE.

Response: The inferred source zone was added to the cross section in the ADP (Figures 4 and 5).

Geosyntec consultants

Hot Spot 1 Step 1 EE Summary Mass Calculations

	Average Concentration (µg/L)	Source of Average Concentration	Area (ft^2)	Thickness (ft)	Pore Volume (L)	Dissolved Mass (lbs)	Equilibrium Soil Concentration (mg/kg)	Sorbed Mass (lbs)	Total Mass (lbs)
300 µg/L > TCE > 3 µg/L	52	Hand Calculated	34,412	25	6.09E+06	0.7	0.02	2.1	2.8
	27	EVS Estimate	---	---	4.17E+06	0.2	0.01	0.8	1.0
3,000 µg/L > TCE > 300 µg/L	1,314	Hand Calculated	17,860	10	1.26E+06	3.7	0.63	11.3	15
	995	EVS Estimate	---	---	3.12E+05	0.7	0.48	2.1	2.8
11,000 µg/L > TCE > 3,000 µg/L	5,947	Hand Calculated	5,663	10	4.01E+05	5.3	2.9	16.2	21
	5,047	EVS Estimate	---	---	5.01E+04	0.6	2.4	1.7	2.3
TCE > 11,000 µg/L	46,750	Hand Calculated	1,742	5	6.17E+04	6.4	22	19.5	26
	19,701	EVS Estimate	---	---	4.45E+03	0.2	9.5	0.6	0.8
					Total Dissolved Mass	1.7 to 16 lbs	Total Sorbed Mass	5.2 to 49 lbs	
							Total TCE Mass	6.9 to 65 lbs	
700 µg/L > cDCE > 70 µg/L	236	Hand Calculated	31,799	25	5.63E+06	2.9	0.03	2.5	5.4
	246	EVS Estimate	---	---	1.24E+06	0.7	0.03	0.6	1.2
7,000 µg/L > cDCE > 700 µg/L	3,153	Hand Calculated	24,829	20	3.52E+06	24	0.4	21	45
	2,184	EVS Estimate	---	---	5.81E+05	2.8	0.3	2.4	5.2
cDCE > 7,000 µg/L	26,443	Hand Calculated	10,019	10	7.09E+05	41	3.5	35	76
	14,386	EVS Estimate	---	---	1.36E+05	4.3	1.9	3.7	8.0
					Total Dissolved Mass	7.8 to 69 lbs	Total Sorbed Mass	6.6 to 58 lbs	
							Total cDCE Mass	14 to 127 lbs	
100 µg/L > VC > 1 µg/L	18	Hand Calculated	86,249	30	1.83E+07	0.7	0.001	0.3	1.1
	10	EVS Estimate	---	---	1.18E+07	0.2	0.001	0.1	0.4
1,000 µg/L> VC > 100 µg/L	387	Hand Calculated	33,977	20	4.81E+06	4.1	0.03	2.0	6.1
	321	EVS Estimate	---	---	1.13E+06	0.8	0.02	0.4	1.2
VC > 1,000 µg/L	3,672	Hand Calculated	18,731	15	1.99E+06	16	0.28	7.8	24
	2,375	EVS Estimate	---	---	5.99E+05	3.1	0.18	1.5	4.7
					Total Dissolved Mass	4.2 to 21 lbs	Total Sorbed Mass	2 to 10 lbs	
							Total VC Mass	6.2 to 31.1 lbs	
							Total Mass	27 to 223 lbs	

Notes:

1. Pore volume for EVS calculations was estimated via EVS and for the hand calculations was estimated using area and depth provided assuming a porosity of 0.25.
2. Soil density assumed to be 100 lb/ft^3.
3. Foc assumed to be 0.003 which was taken from estimate provided by Tetra tech in Step 1 ADP for Hot Spot 2 for a sand with shell.
4. Koc data calculated from Sawyer, McCarty and Parkin, 5th Edition (2002); TCE = 165.7 L/kg, cDCE = 45.6 L/kg and VC = 26.3 L/kg.

Hot Spot 1 Step 1 EE Summary
Estimated Source Zone CVOC Mass

SZ CVOC	Average Concentration (µg/L)	GIS Area (ft^2)	Thickness (ft)	Volume (ft^3)	Pore Volume (L)	Dissolved Mass (lbs)	Equilibrium Soil Concentration (mg/kg)	Sorbed Mass (lbs)	Total Mass (lbs)
TCE	46,750	3,049	5	15,246	1.08E+05	11.1	22.5	34.2	45.3
cDCE	26,443	3,049	5	15,246	1.08E+05	6.2	3.5	5.3	11.6
VC	3,672	3,049	5	15,246	1.08E+05	0.86	0.28	0.43	1.3
					Total Dissolved Mass :	**18 lbs**	**Total Sorbed Mass:**	**40 lbs**	
								Total SZ Mass:	**58 lbs**

1. Porosity assumed to be 0.25.
2. Area is the Source Zone area , which includes the inferred area (total of 0.07 acres). This area is larger than what was presented in the mass calculations for the Step 1 EE ADP.
3. Soil density assumed to be 100 lb/ft^3 .
4. F_{oc} assumed to be 0.003 which was taken from an estimate provided by Tetra Tech in Step 1 ADP for Hot Spot 2 for a sand with shell.
5. K_{oc} data calculated from Sawyer, McCarty and Parking, 5^{th} Edition (2002): TCE = 165.7 L/kg, cDCE = 45.6 L/kg and VC = 25.3 L/kg.
6. Volume calculated from GIS area of TCE source zone impacts and inferred depth based on sampling results.
7. Average groundwater concentrations calculated from DPT groundwater sampling results.
8. Total mass is rounded to nearest whole number.

Hot Spot 1 Step 1 EE Summary
Estimated 10xNADC Plume CVOC Mass

SZ CVOC	Average Concentration (µg/L)	GIS Area (ft^2)	Thickness (ft)	Volume (ft^3)	Pore Volume (L)	Dissolved Mass (lbs)	Equilibrium Soil Concentration (mg/kg)	Sorbed Mass (lbs)	Total Mass (lbs)
TCE (SZ)	46,750	3,049	5	15,246	1.08E+05	11.1	22.5	34.2	45.3
TCE (no SZ)*	5,947	2,614	10	26,136	1.85E+05	2.4	2.9	7.5	9.9
cDCE	26,443	10,019	10	100,188	7.09E+05	41.3	3.5	35.0	76.4
VC	3,672	18,731	15	280,962	1.99E+06	16.1	0.28	7.8	24.0
					Total Dissolved Mass :	**71 lbs**	**Total Sorbed Mass:**	**85 lbs**	
								Total 10xNADC Plume Mass:	**156 lbs**

1. Porosity assumed to be 0.25.
2. Soil density assumed to be 100 lb/ft^3.
3. Areas are the area of 10xNADC for each constituent and are presented on Figure 2.
4. F_{oc} assumed to be 0.003 which was taken from an estimate provided by Tetra Tech in Step 1 ADP for Hot Spot 2 for a sand with shell.
5. K_{oc} data calculated from Sawyer, McCarty and Parking, 5th Edition (2002): TCE = 165.7 L/kg, cDCE = 45.6 L/kg and VC = 25.3 L/kg.
6. Volume calculated from GIS area and inferred depth based on sampling results.
7. * indicates that the TCE area is the 10X NADC area minus the SZ area (5,663 ft^2 – 1,742 ft^2).
8. Average groundwater concentrations calculated from DPT groundwater sampling results.
9. Total mass is rounded to nearest whole number.

Response to Comments

TT Comment #2: Slide 18/19 (new slide 20/21) – The mass values deviate significantly from what was presented in the Step 1 EE. We suggest providing information to what influenced the increase in calculated mass from the Step 1 to 2 EE, the Geosyntec presentation response to Tetra Tech's Step 1 EE comment regarding mass does not parallel what is provided in the Step 2 EE.

Response: The mass estimates from the Step 1 ADP have been added to the ADP. For the source zone, the TCE mass estimate was modified from what was presented in the Step 1 because the area increased (see note 2 of the table – increase from 1,742 sq ft to 3,049 sq ft). The mass of TCE in the source zone from the Step 1 was approximately 26 lbs (using the hand calculated values to be conservative) and the revised mass of TCE presented in the Step 2 is 45 lbs. The cDCE and VC mass estimates were not presented for the source area in the Step 1 ADP.

The mass estimate presented for the 10XNADC area is the same as the mass estimate that was presented in the revised Step 1 for cDCE and VC (using the hand calculated values, which are the most conservative). The TCE mass estimate for the 10XNADC area was modified because the area of the source zone increased. In the Step 1, the mass estimates were presented as "rings" and not totals for the areas, so the 10XNADC estimate did not include the source zone TCE mass.

Data Gaps
Geochemical Parameters

- Geochemical parameters for Source Zone and 10xNADC Plume
  - DO generally from 0.13 to 0.40 mg/L
  - ORP generally from negative 70 to negative 29 mV
  - pH generally ranged from 6.8 to 7.3 SU
- Parameters from data gap sampling (December 2013; CRHE-MW0025 and CRHE-MW0029)
  - *Dehalococcoides:* $1x10^7$ and $2x10^7$ gene copies per liter
  - *Vinyl chloride reductase*: $3x10^6$ and $8x10^6$ gene copies per liter
  - Methane: 1,180 and 1,260 µg/L
  - Ethene: 31.5 and 672 µg/L
  - Ethane: 15.5 and 382 µg/L
  - Sulfate: non-detect and 7.8 mg/L
  - Sulfide: non-detect and 0.48 mg/L
- Strong evidence that biologically mediated reductive dechlorination is occurring at the site

Data Gaps
1,4-Dioxane Results

- 1,4-dioxane is not an issue for remedial decision making
- Will include 1,4-dioxane in monitoring program

- MW25 (25 to 35 ft BLS)
  - 14.5 µg/L
  - Exceeds GCTL (3.2 µg/L)
- MW29 (40 to 50 ft BLS)
  - 1.3 I µg/L
- IW19I (35 to 45 ft BLS)
  - 1 U µg/L
- MW35 (40 to 50 ft BLS)
  - 3.9 µg/L
  - Exceeds GCTL (3.2 µg/L)

Data Gaps
Facility Conditions

- Transformer identified north of the Heavy Equipment Office Building
  - Requested information from URS Electrical SE – looking into transformer condition and availability of space for AS/SVE systems
- Contacted NASA's utility locators about working in utility corridor
  - Will be allowed to drill and trench
  - Must hand auger to water table before drilling
  - Trenches must be hand dug
- Contacted with NASA about working in the road way
  - Will have to develop an MOT to temporarily shut down roadway for installation of wells or DPT injection (only for 10xNADC treatment area)
- Facility manager provided information that maximum weight of equipment onsite is approximately 300,000 lbs
  - Load per axle could be as high 65,000 pounds per axle
  - Vault boxes meet DOT H-20 requirements (8,000 lb front axle and 32,000 lb rear axle)

Data Gaps
Supplemental Sampling

- Supplemental DPT groundwater sampling will be performed in 2014 as part of HCP and LCP delineation
  - Samples will be collected from under the Heavy Equipment Office Building and from within the roadway (Contractor's Road)
  - This data will be incorporated into the design
    - IM Design Report or the Implementation Work Plan

Hot Spot 1 Corrective Action Objective

- CAO: Reduce CVOC concentrations within the treatment area to less than NADCs or concentrations which will support Long Term Monitoring
- Treatment areas
  - Overall 10xNADC
  - Source Zone
- NASA may elect to continue IM to GCTLs and/or some alternative asymptotic level based upon performance

Response to Comments

Jacobs Comment #1: Slide 24 (new slide 27) – For the CAO, please clarify what is meant by "concentrations which will support Long Term Monitoring." Since the CAO applies to a hot spot and source zone, it seems an HCP action would be a potential follow-on step as overall site cleanup progresses.

Response: With the existing CAO, NASA, the KSC Remediation Team, and the A&E have the flexibility to evaluate performance and base a recommendation for follow-up action (if necessary) on the performance. If the CAO is to progress the site to an HCP action, it does not provide the same level of flexibility and decision making based on implementation results.

Alternatives Evaluated

- Source Zone
  - 1A – Air sparge and soil vapor extraction (AS/SVE)
  - 2A – Bioremediation using emulsified oil (EOS)
  - 3A – Emulsified zero valent iron (EZVI)

- 10xNADC Plume
  - 1B – AS/SVE
  - 2B – Bioremediation using EOS with groundwater recirculation and passive venting beneath the building
  - 3B – EZVI in SZ and bioremediation (10X NADC) using EOS with groundwater recirculation and passive venting beneath the building

- All alternatives include institutional controls

1A – Air Sparge and SVE SZ

SZ Air Sparge and SVE Conceptual Design

- Installation of 13 air sparge (AS) wells via HSA
  - Screened from ~48 to 50 ft BLS
  - Spacing between wells of approximately 20 ft with an assumed ~20 ft ROI
    - Conservative conceptual spacing with robust overlap since in area of probable DNAPL
  - 25-hp AS system operating one of two zones at a time
  - Use mobile air sparge trailer #3 (conservative 25 hp compressor)
    - Assumes electrical hookup available on site (transformer SS/USS-1103)
    - Capable of 190 scfm and 31.9 psi (estimated need ~ 30 psi to most distal well)
  - Anticipated flow rate of 5 to 10 scfm per well
- Purchase of SVE system – 11 SVE chambers installed to capture vapors in treatment area
  - 10-hp SVE system operating one of two zones at a time
  - Anticipated flow rate of 20 to 30 scfm per chamber
  - Granular activated carbon (GAC) treatment of recovered vapors
  - SVE chambers (to maximize air flow) branch off central line through SZ

Geosyntec consultants

Response to Comments

TT Comment #5: Slide 27/32/35 (new slide 31/39/46) – Is there an assumed vacuum to be applied at the horizontal SVE points that was used for SVE sizing? We also suggest including a variable frequency drive on the blower/fan in order to dial in the blower to site conditions and/or perform SVE pilot testing, if alternatives with SVE are selected. Additionally, it is not clear in the details if the chambers shown on Slide 32 contain valve boxes/vaults in order to individually control the chambers. Please clarify.

Response: It is anticipated that the SVE system will include a blower capable of greater than 360 scfm and operate at approximately 20-inches of water to minimize the extraction of water (likely a 15 Hp Ametek Rotron Regenerative Blower). We agree that a variable frequency drive blower should be considered during the design phase. A typical detail is provided for an SVE chamber; the details about operation of the chambers will be decided during the design, if AS/SVE is selected. Geosyntec has designed SVE chambers with remote valving (typical at drycleaners where the chambers are installed beneath the drycleaner slab) and with valving within vault boxes. The specifics of the valving orientation associated with the SVE chambers is a design detail.

SZ Air Sparge and SVE Conceptual Design

- DPT groundwater sampling included (3 days)
  - To evaluate system optimization or shut down
- Minimum monthly O&M (daily for first three days, weekly first month, monthly thereafter)
- Performance monitoring
  - Installation of 10 monitoring wells
  - Quarterly monitoring for VOCs

Response to Comments

TT Comments #3: Slide 28 (new slide 33) – Due to the nature of air sparging (AS) near occupied buildings, an ambient and soil vapor extraction (SVE) air sampling program should be integrated into the conceptual design (this comment is relevant for all AS alternatives). Please include this consideration and costs into the Step 2 EE.

Response: We agree that an ambient air sparging program should be implemented, if AS/SVE is selected and implemented. A detailed description of the sampling plan will be provided in the Step 3 and costs are minimal and are considered to be included in the O&M cost provided.

SZ Air Sparge and SVE Conceptual Design Layout

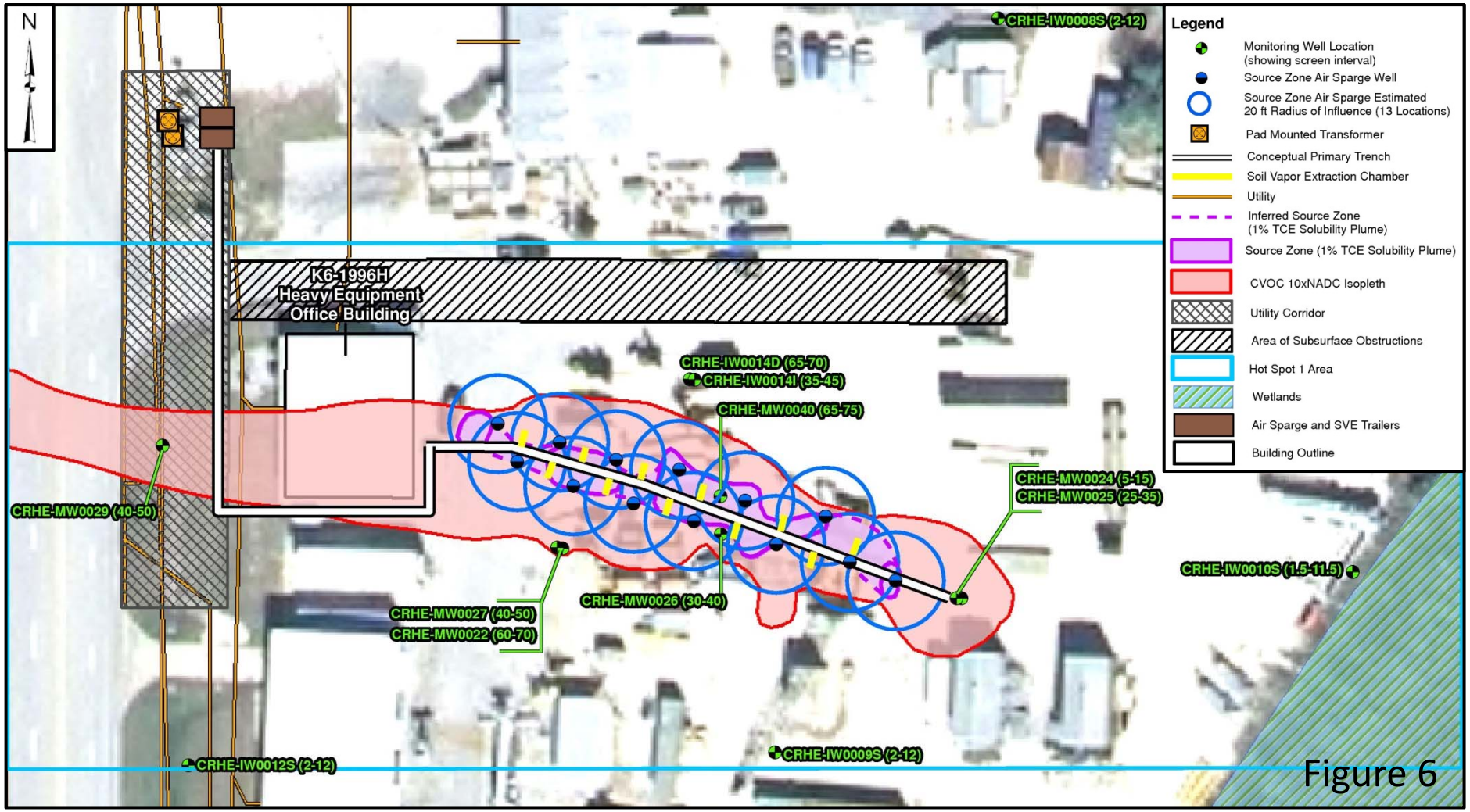
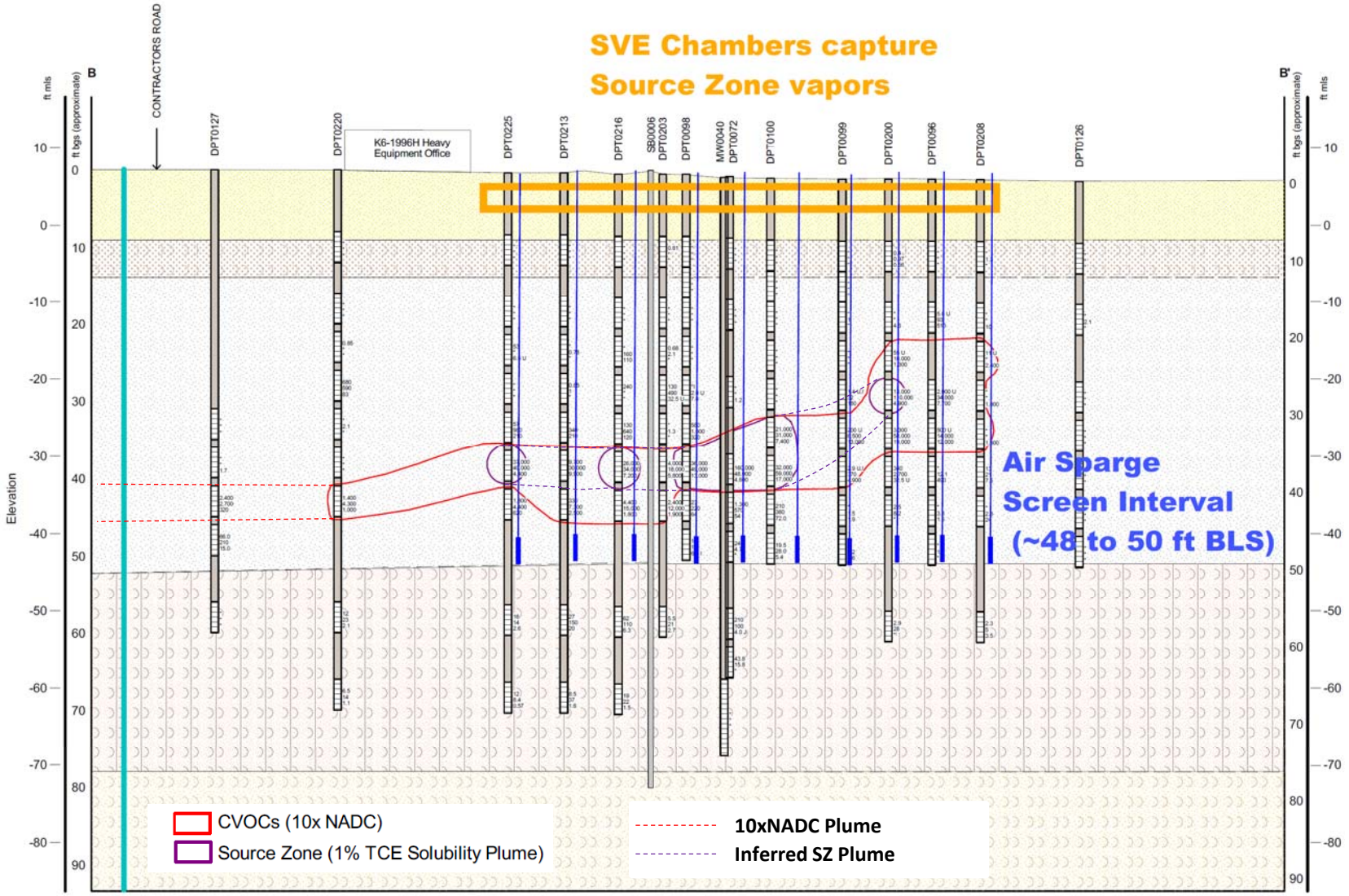


Figure 6

SZ Air Sparge Conceptual Design Layout

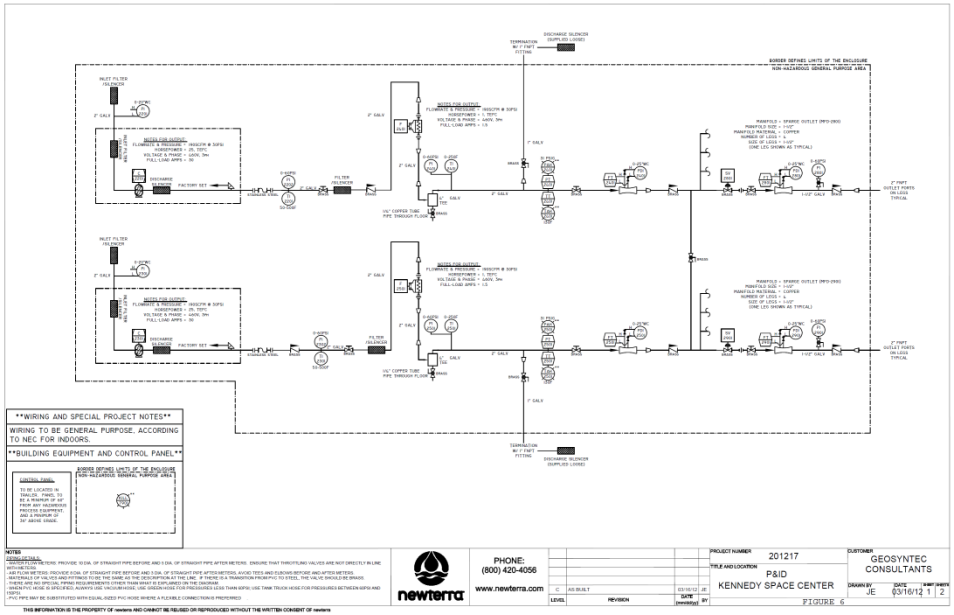


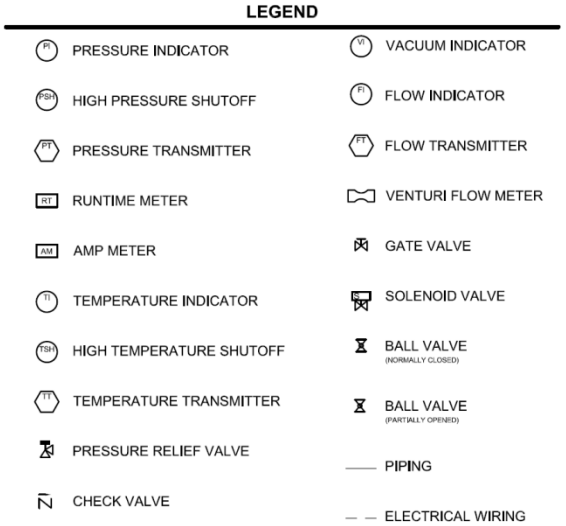
Response to Comments

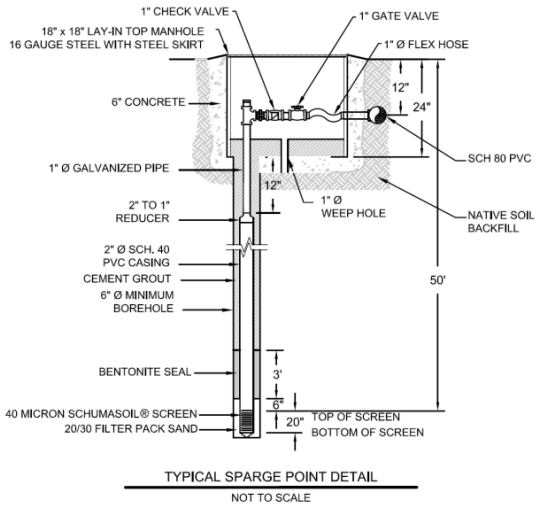
TT Comment #4: Slide 30/36 – While the horizontal layout for the AS network is very conservative, it does not appear the vertical distribution of AS points is tailored to site conditions. In the source zone area near DPT0200, we suggest installing shallower AS wells or nesting wells to address the source zone at least 20 feet above the proposed screen intervals in order to provide a more focused approach (this comment is relevant for all source zone AS alternatives).

Response: We feel that the current vertical layout is adequate for a conceptual design and the use of nested wells would be considered as part of the design, if AS/SVE is selected.

SZ Air Sparge and SVE Conceptual Process Flow Diagram



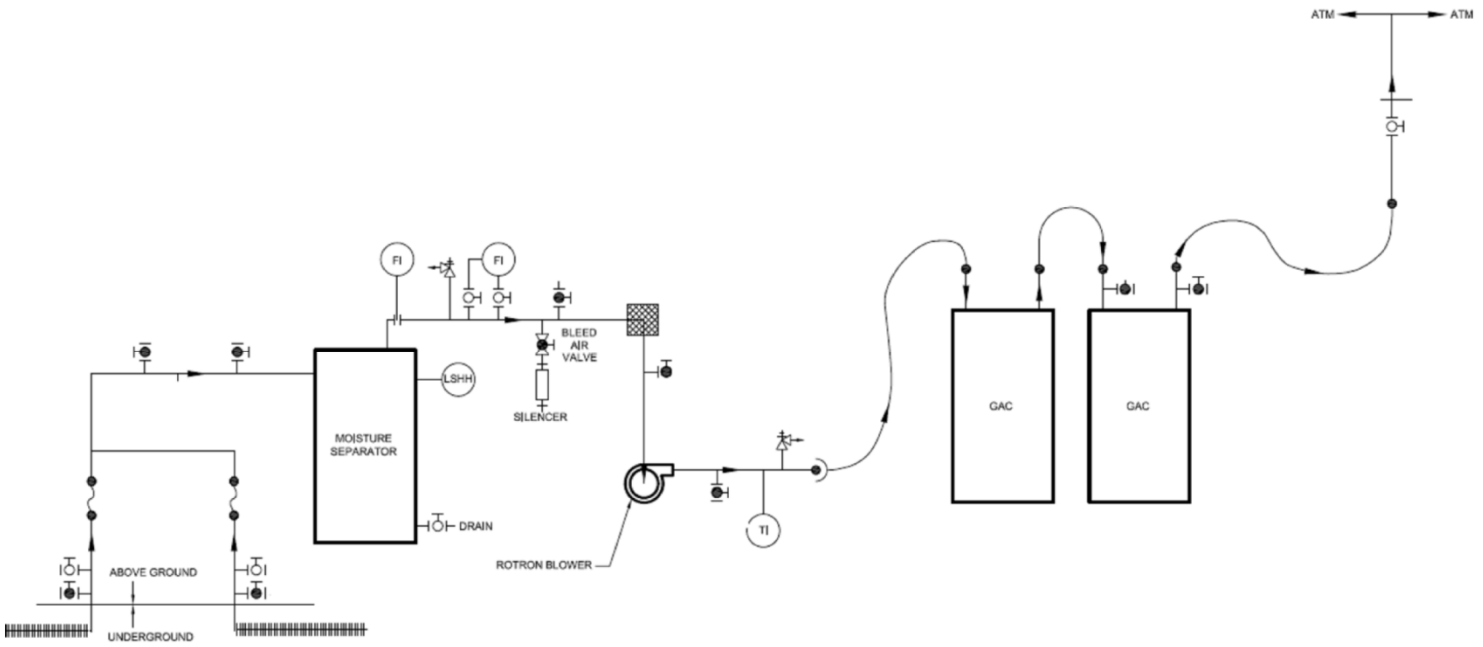




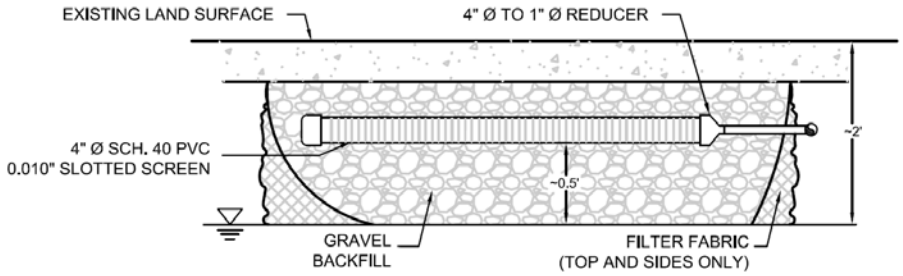
TYPICAL SPARGE POINT DETAIL
NOT TO SCALE

Figure 7

SZ Air Sparge and SVE Conceptual Process Flow Diagram



SOIL VAPOR EXTRACTION CONCEPTUAL PROCESS FLOW DIAGRAM
NOT TO SCALE



SOIL VAPOR EXTRACTION CHAMBER DETAIL
NOT TO SCALE

Note: a plastic cap may be included between the land surface and the SVE chamber

Figure 8

SZ Air Sparge and SVE Cost Summary

SZ – AS and SVE	
Approximate Time to Achieve CAO	2 to 3 years
Capital Cost Estimate	$252,900
Annual O&M&M Cost Estimate	$96,200
DPT Sampling Cost	$19,700
Total Cost Estimate	$465,000 to $561,000

- CAO is conservative since treating area with probable DNAPL
  - Based on air sparge performance at other KSC sites
- Total cost estimate is cost to reach NADCs
  - Includes capital cost, DPT sampling, and two to three years of annual O&M&M
- Cost assumes the use of an existing mobile air sparge trailer

Table 1

Response to Comments

Jacobs Comment #2: SZ Air Sparge and SVE: General – The site conceptual model includes probable DNAPL in the SZ. There is little literature regarding reduction of DNAPL by air sparging, so citations of applicable studies would be helpful in evaluating the estimate for the time to achieve the CAO and in evaluating the likelihood of rebound. We recognize that good information about air sparging performance in DNAPL source zones will be generated by the CCB Hot Spots 1 and 2 IM in the near future.

Response: Based on the size of the source zone (0.04 acres – the non-inferred area), the likelihood of "pools" of DNAPL mass is relatively small. It is anticipated that the DNAPL mass present is likely smaller ganglia, which are easier to treat via AS. It has been documented that AS is a viable technology for sites that have low levels of DNAPL and LNAPL (not recoverable) as noted in the references below.

- *Air Sparging Guidance Document (TR-2193-ENV) Naval Facilities Engineering Service Center, August 2001;*
- *Dense Nonaqueous Phase Liquids (DNAPL) Treatment Technologies (http://cluin.org/contaminantfocus/default.focus/sec/Dense_Nonaqueous_Phase_Liquids_%28DNAPLs%29/cat/Treatment_Technologies/) – developed by the EPA Ground Water Task Force.*
- *While not a specific literature reference, Geosyntec designed, installed, and operated an AS/SVE system at Lipham Cleaners in Longwood, Florida, which had PCE groundwater concentrations exceeding 10% of solubility (0.32 acres) and plume depth similar to CRHE (depth of sparge wells ~36 ft BLS). The AS operations at the site reduced groundwater concentrations to less than NADCs in 2.5 years.*

TT Comment #13: Cost Estimate, T-1 – The costs presented for a SVE system are significantly higher than what would be expected, considering the size of the system. Please clarify the $50,000 line item.

Response: The cost for the SVE system was based off of vendor provided unit pricing (from Product Recovery Management) that includes the equipment trailer, blower, moisture separator with pump-out and controls, liquid-phase carbon, telemetry, delivery and start-up assistance. The estimated cost for the system, since the components have not been specifically selected was between $40,000 and $50,000, so the conservative $50,000 cost was utilized.

TT Comment #14: Cost Estimate, T-1/T-2 – The electrical line installation line item cost appears low. Please revisit.

Response: The cost for the electric line installation was scaled from the actual cost for the electric line installation performed in 2012 at VPF. The work at VPF included the installation of 50 feet of electric line and was approximately $5,000. Therefore, we felt that the identified line item cost was a conservative estimate for this Step 2, which assumed the installation of 30 ft of electric line.

Response to Comments

Jacobs Comment #3: SZ Air Sparge and SVE: General – Where there is DNAPL, the free phase product (TCE in this case) typically occupies a significant portion of available pore space. Air will seek the path of least resistance, so it seems likely that air-to-DNAPL contact will be low. What is the expected mechanism for reduction of DNAPL mass by air sparging? Please include your assumptions about degradation rate and effectiveness. It is important to understand these in order to evaluate and confirm estimates of time to achieve NADCs and cost.

Response: DNAPL mass reduction via AS can occur via two mechanisms: (i) the volatilization of the DNAPL via direct contact with the air; and (ii) the dissolution of DNAPL into the groundwater as the dissolved concentrations are removed via volatilization. The rate for direct volatilization of the DNAPL would be comparable to rates observed at other sites where AS has been implemented. The rate for dissolution of DNAPL into the groundwater would be slower. The time to achieve the CAO was estimated to be the time to reduce CVOCs to NADCs and was based on air sparging results at other sites (one to two years) with time added for the dissolution of the DNAPL into groundwater.

It should be noted that the conceptual layout also included a very robust air sparge well network in the area of potential DNAPL to create an aggressive environment (20 foot spacing of AS wells). Operation of the system in this environment would include an aggressive dynamic approach to maximize air-to-DNAPL contact.

1B – Air Sparge and SVE 10xNADC Plume

10xNADC Air Sparge and SVE Conceptual Design

- Installation of 34 AS wells via HSA
  - Screened from approximately 48 to 50 ft BLS
  - Five angle drilled AS wells beneath the building
  - Spacing in the source zone and under the building of approximately 20 ft and spacing of wells in 10XNADC ring approximately 30 feet (assumed 20 ft ROI)
  - 25-hp AS system operating one of three zones at a time
  - Use mobile air sparge trailer #3 (conservative 25 hp compressor)
    - Assumes electrical hookup available on site (transformer SS/USS-1103)
    - Capable of 190 scfm and 31.9 psi (estimated need ~ 30 psi to most distal well)
  - Anticipated flow rate of 5 to 10 scfm per well
- Purchase of SVE system – 16 SVE chambers installed to capture vapors in treatment area
  - 10-hp SVE system operating one of two zones at a time
  - GAC treatment of recovered vapors
  - SVE chambers (to maximize air flow) around the building and in the SZ
  - Anticipated flow rate of 20 to 30 scfm per chamber

Response to Comments

Jacobs Comment #4: Alternative 1B, 10X NADC Plume Air Sparge and SVE: Slide 35 (new slide 46) – The conceptual plan calls for angular drilling to deploy AS wells under the building, with SVE wells positioned along the perimeter. Please confirm the influence of the perimeter SVE network is adequate to capture vapors from beneath the building.

Response: The estimated ROI of the SVE system is between 20 ft and 30 ft (as described in the Description of Alternatives). The layout of the SVE wells with the estimated ROI should be adequate to cover the area underneath the building (approximate size of 70 by 50 ft) – see updated figure in the ADP with estimated ROI presented on slide 50. The layout is more than adequate for a conceptual design and associated costing and the exact details of the SVE layout will be evaluated during the design phase, if AS/SVE is selected.

10xNADC Air Sparge and SVE Conceptual Design

- Hand auger to water table for well installation and hand dig for trenching in the utility corridor
- DPT groundwater sampling included (5 days)
  - To evaluate system optimization or shut down
- Minimum monthly O&M (daily for first three days, weekly first month, monthly thereafter)
- Performance monitoring
  - Installation of 15 monitoring wells
  - Quarterly monitoring for VOCs

Geosyntec consultants

10xNADC Air Sparge and SVE Conceptual Design Layout

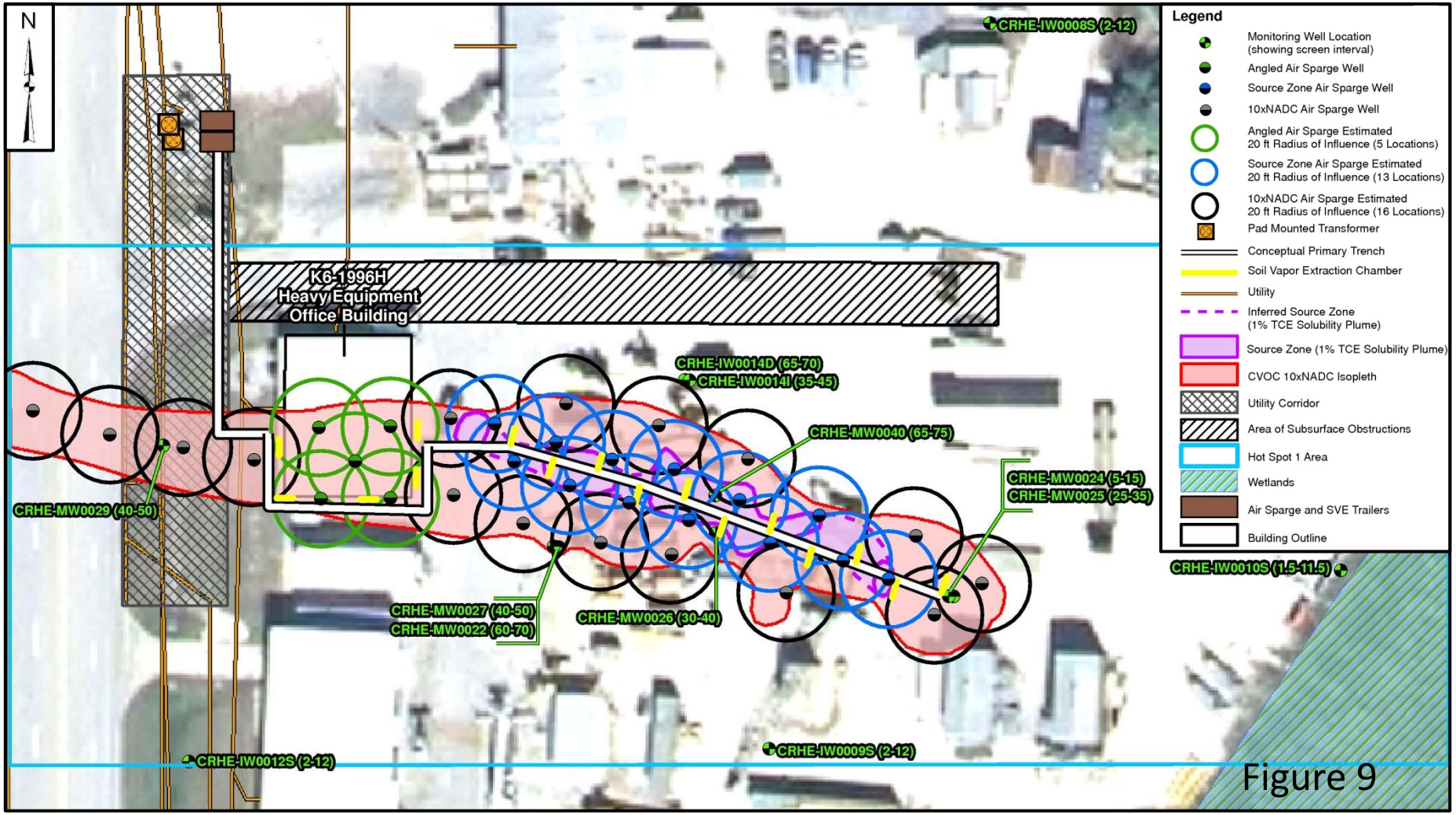
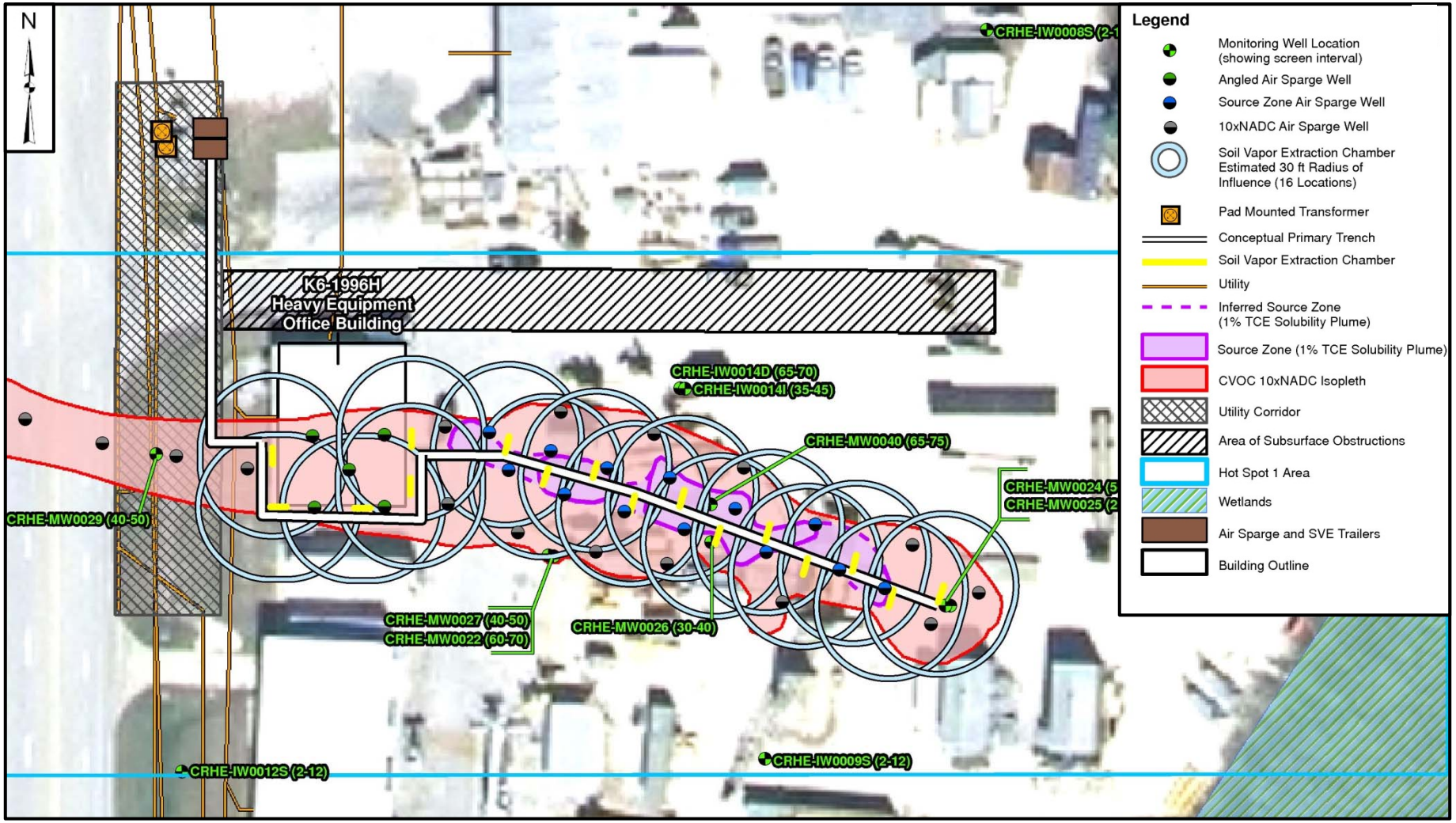
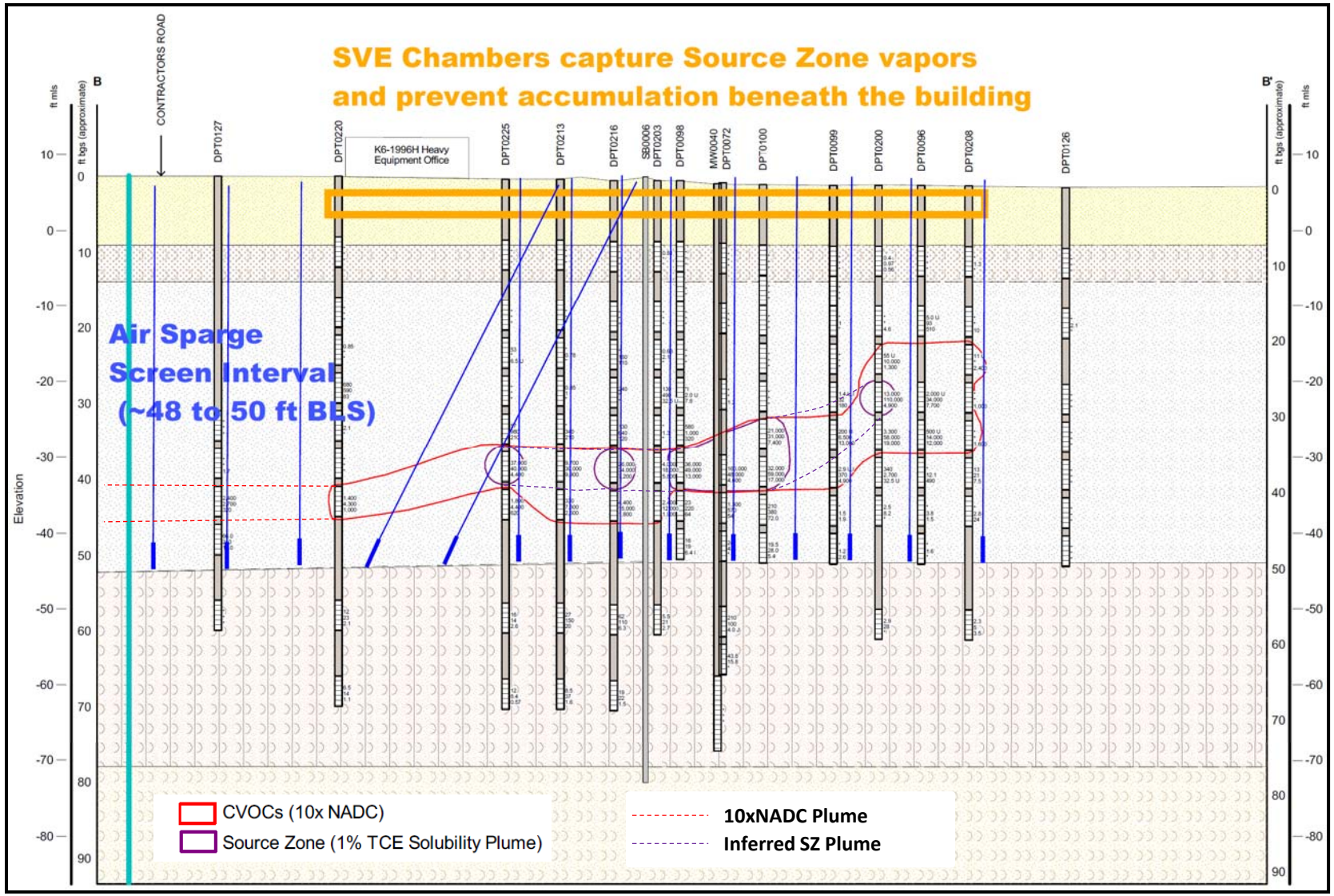


Figure 9

10xNADC Air Sparge and SVE Conceptual Design Layout



10xNADC Air Sparge and SVE Conceptual Design Layout

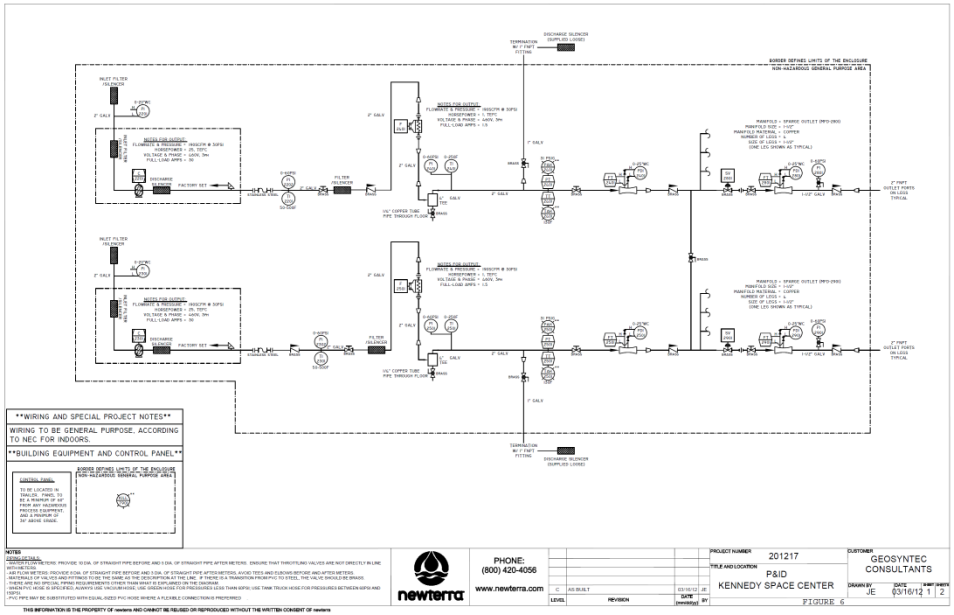


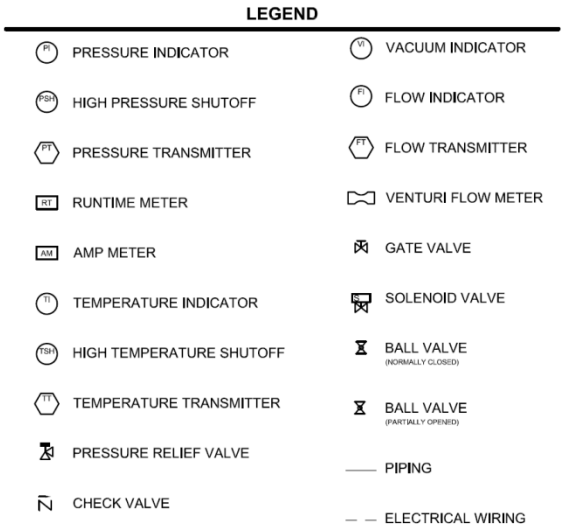
Response to Comments

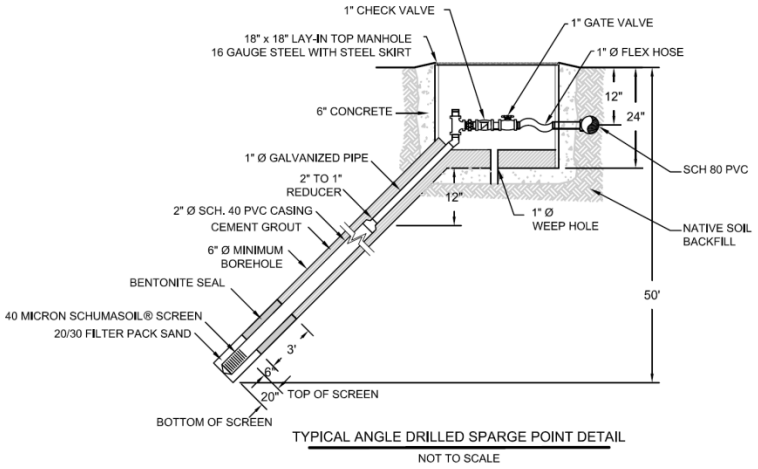
TT Comment #6: Slide 38 (new slide 51) – Based on the presented ten times Natural Attenuation Default Criteria (10X NADC) plume, it is not clear what the AS wells to the western part of the cross section are treating and this interpretation does not match what is shown in plan view. We suggest revising the cross section to provide a closer correlation to the center line of the source zone/10X NADC plume (global comment).

Response: The 10XNADC plume on the plan view is drawn by contouring the data on the west side of the building, which the cross section does not include. The 10XNADC contour has been updated on the cross sections in the presentation.

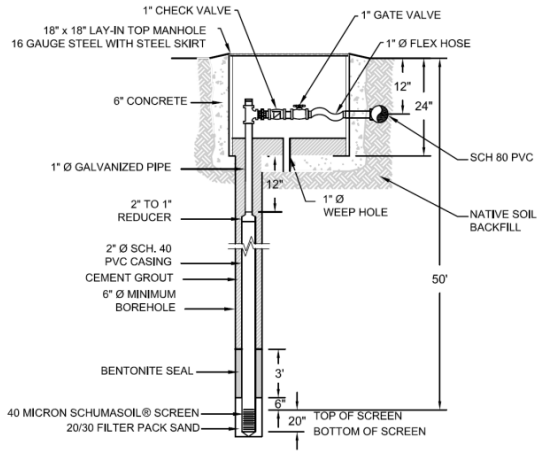
10xNADC Air Sparge and SVE Conceptual Process Flow Diagram







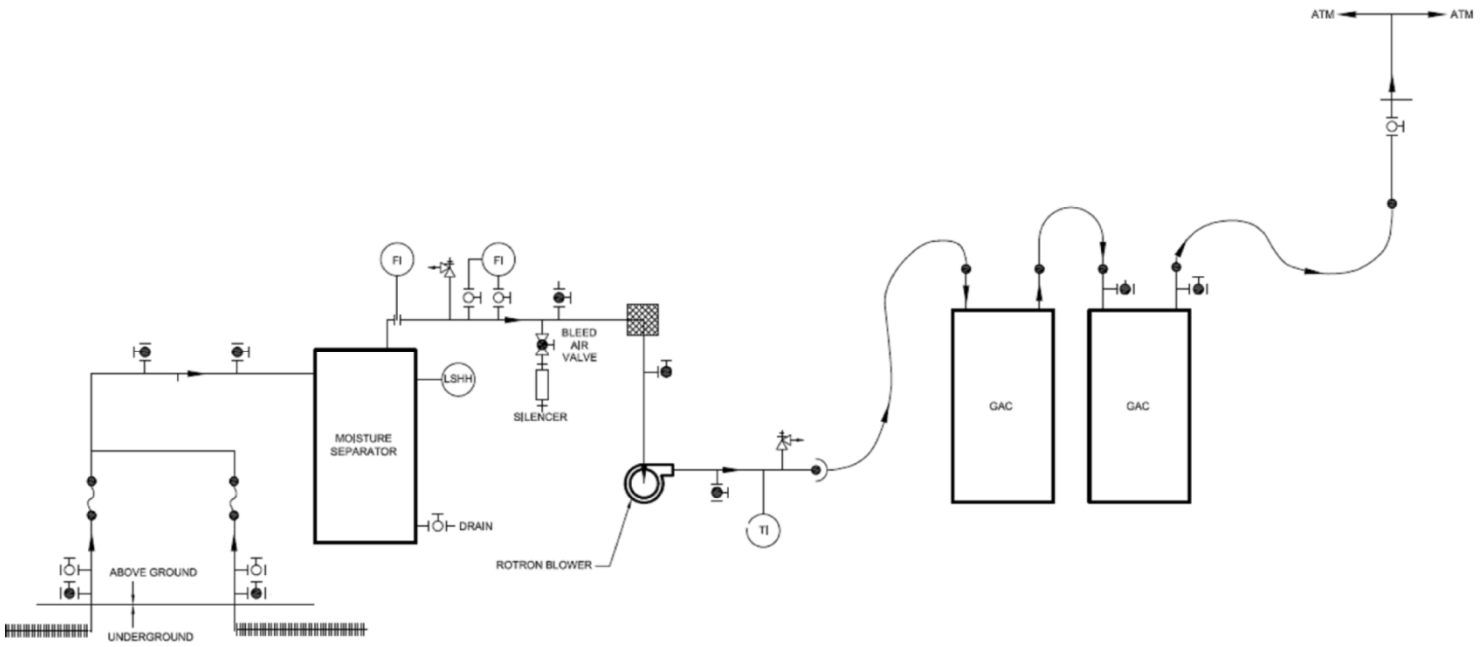
TYPICAL ANGLE DRILLED SPARGE POINT DETAIL
NOT TO SCALE



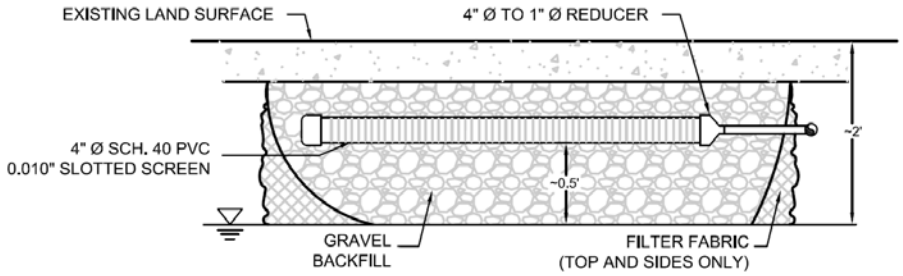
TYPICAL SPARGE POINT DETAIL
NOT TO SCALE

Figure 7

10xNADC Air Sparge and SVE Conceptual Process Flow Diagram



SOIL VAPOR EXTRACTION CONCEPTUAL PROCESS FLOW DIAGRAM
NOT TO SCALE



SOIL VAPOR EXTRACTION CHAMBER DETAIL
NOT TO SCALE

Note: a plastic cap may be included between the land surface and the SVE chamber

Figure 8

Jacobs Comment #5: Alternative 1B, 10X NADC Plume Air Sparge and SVE: Slide 40 (new slide 54) – The plastic cap described in the Alternatives Description is not included in the SVE chamber detail. We suggest it be added.

Response: A note was added to the ADP to provide information about the plastic cap on the SVE chamber detail. The specific engineering details of the plastic cap (which may not be warranted at all locations) is a design detail which would be included in the Interim Measure design, if AS/SVE is selected.

10xNADC Air Sparge and SVE Summary

10xNADC – AS and SVE	
Approximate Time to Achieve CAO	2 to 3 years
Capitol Cost Estimate	$424,600
Annual O&M Cost Estimate	$121,200
DPT Sampling Cost	$32,400
Total Cost Estimate	$699,000 to $821,000

- CAO is conservative since treating area with probable DNAPL
  - Based on air sparge performance at other KSC sites
- Total cost estimate is cost to reach NADCs
  - Includes capital cost, DPT sampling, and two to three years of annual O&M&M
- Cost assumes the use of an existing mobile air sparge trailer
- Cost assumes purchase of trailer mounted SVE system Table 2

TT Comment #7: Slide 41 (new slide 55) – A pre-packaged SVE enclosure may be more appropriate and less expensive than a mobile trailer. We suggest evaluating the use of an enclosure instead of a trailer.

Response: If AS/SVE is selected as the remedial alternative, these suggestions will be taken into consideration with NASA during the design phase.

2A – Bioremediation SZ

SZ Bioremediation Conceptual Design

- 29 DPT injection points
  - Electron donor injected from 20 to 50 ft BLS
  - Injection point spacing based on 8 ft ROI
- Injection of 33 drums of emulsified oil
  - Based on filling 0.5% of pore volume with emulsified oil
  - Conservative estimate based on possibility of DNAPL
- Second injection (17 drums) of emulsified oil 24 months after initial event
  - Based on filling 0.25% of pore volume with emulsified oil
- DPT sampling (3 days) included to aid in design for second injection event
- Installation of 10 performance monitoring wells
  - Sample all for VOCs quarterly
  - Analyze subset of 5 wells for *Dhc*, *vcrA*, sulfate, sulfide, and TOC

Jacobs Comment #8: Alternative 2A, SZ Bioremediation: Slide 43 (new slide 59) – Was a case study or information from one of your other sites used to develop the conceptual design of a 0.5% initial/0.25% follow-up pore volume emulsified oil application?

Response: The emulsified oil dosing that we have used successfully during bioremediation implementation is between the range of 0.1% to 1% of the pore space and usually for dissolved phase plumes is around 0.1 to 0.2% of the pore space. The dosing of 0.5% and 0.25% was selected within that range and above the vendor's recommendation to be conservative.

Jacobs Comment #9: Alternative 2A, SZ Bioremediation: Slide 43 (new slide 59)/Alternatives Description – We assume multiple lifts will be used to deliver emulsified oil through the treatment zone. What is the anticipated vertical area of influence for each lift?

Response: Multiple lifts would occur to deliver the emulsified oil, continuously over the entire treatment interval. The anticipated vertical lift would be every 2 feet and emulsified oil and chase water would be injected to reach the desired ROI. The injection details will be decided during the design, if bioremediation is selected

TT Comment #15: Description of Alternatives, Page 5 – The stated 60% oil substrate and 1:20 dilution results in an injection concentration of approximately 3%. Considering groundwater dilution and the suspected presence of DNAPL, the substrate dosage concentrations appear low. Please provide rationale for the bioremediation dosing.

Response: The 1:20 dilution is within the recommend range of dilution from the vendor, so that the emulsion remains stable. See response to Jacob's comment #8 above for dosing information.

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SZ Bioremediation Conceptual Design Layout

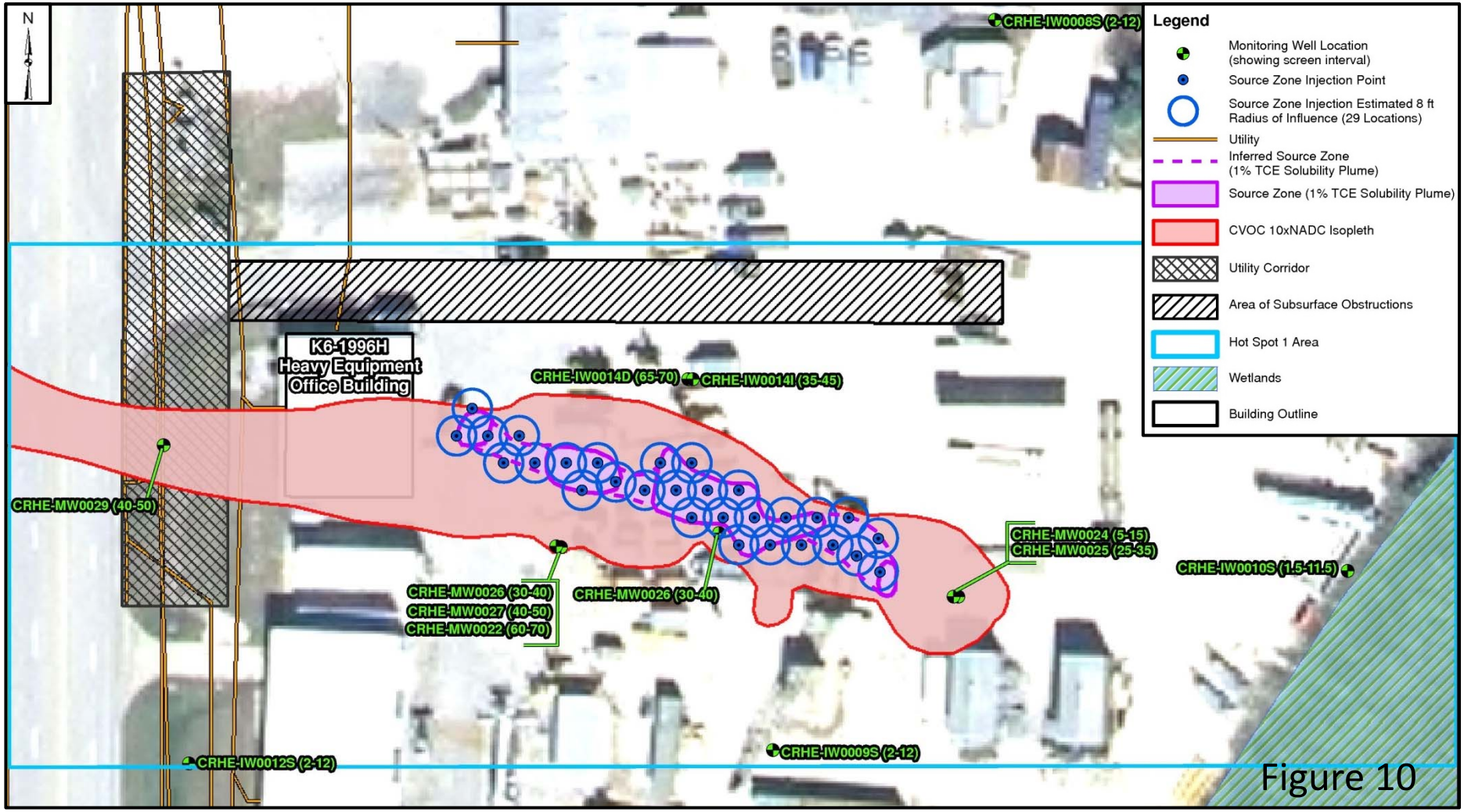

Figure 10

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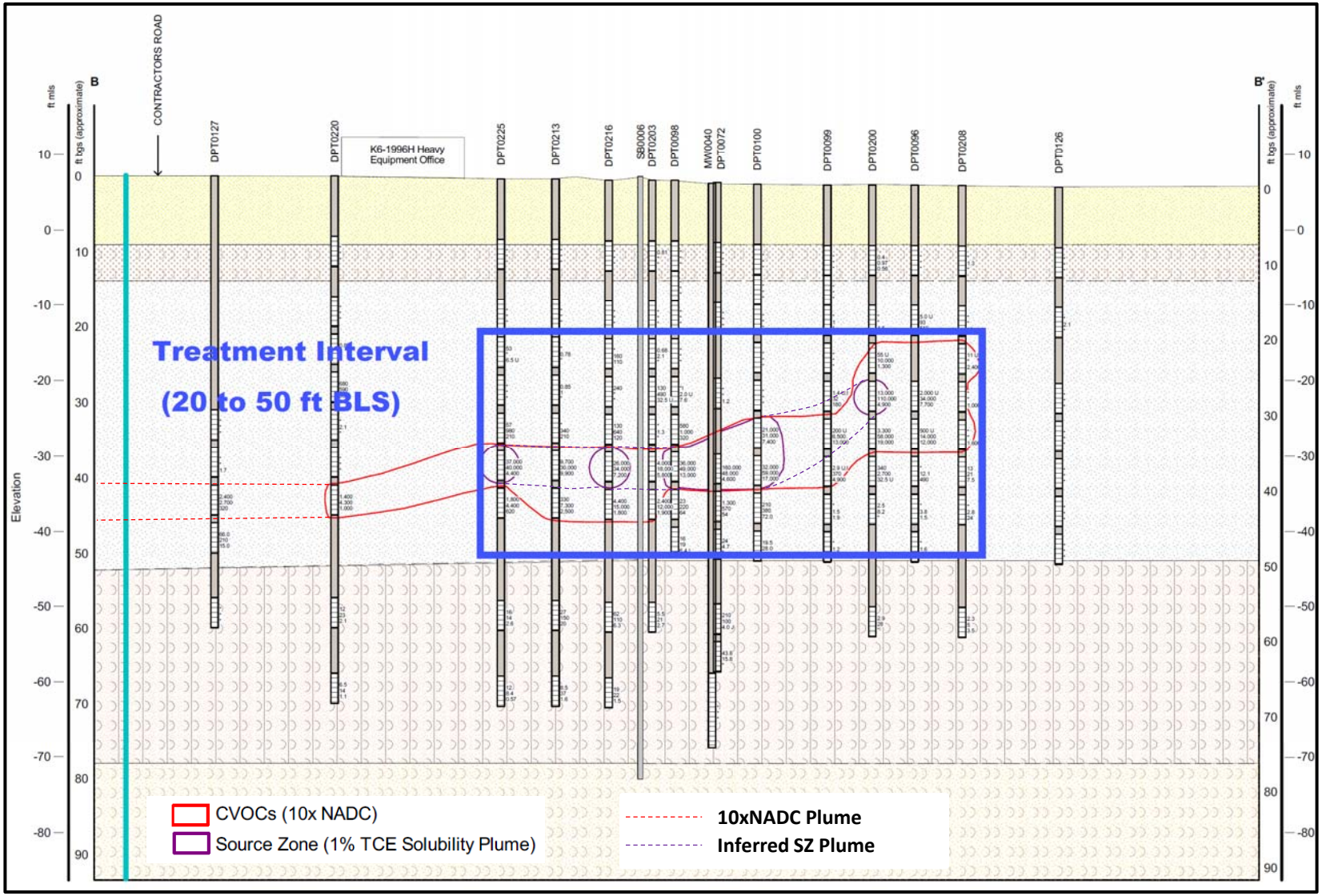
SZ Bioremediation
Conceptual Process Flow Diagram



TT Comment #8: Slide 45/50/56/61 (new slides 64/74/82/88) – Do the alternatives assume treatment of the entire area that is within the blue rectangle? If this is the case, the volumes used to calculate remedial additives may be substantially overestimated for treatment of the applicable plume interval. Please clarify.

Response: AS/SVE will treat the entire interval from 20 ft to 50 ft; therefore, to compare the same treatment volume for all three technologies, the treatment interval for both enhanced bioremediation and EZVI was expanded to 20 to 50 ft BLS.

SZ Bioremediation Summary

SZ – Bioremediation	
Approximate Time to Achieve CAO	3 to 5 years
Capitol Cost Estimate	$167,400
Annual O&M Cost Estimate	$60,000
DPT Sampling Cost	$19,700
Second Injection Cost Estimate	$69,900
Total Cost Estimate	$437,000 to $557,000

- CAO is conservative since treating area with probable DNAPL
  - Based on MLP dechlorination rates from source area biostimulation
- Total cost estimate is cost to reach NADCs
  - Includes capital cost, DPT sampling, second injection event, and three to five years of annual O&M&M

Table 3

Response to Comments

Jacobs Comment #10: Alternative 2A, SZ Bioremediation: Slide 46 (new slide 66) – Since the estimate of time to achieve CAO was based on MLP dechlorination rates, was a factor applied to account for the variance in TCE concentrations between the two sites?

Response: A factor was not applied to account for the variance in concentrations between the two sites, since the TCE concentrations are similar – see response to Jacob's comment #6. TCE is generally not the rate limiting CVOC with regards to dechlorination (longest time to NADC); it is usually vinyl chloride. The time to reach CAO was based on the dechlorination rates for vinyl chloride from MLP. Using MLP rates, time to reach NADC for TCE was approximately 2 years, for cDCE was approximately 3.4 years and for vinyl chloride approximately 4.4 years; therefore, a range of 3 to 5 years was selected for this evaluation.

Jacobs Comment #6: Alternative 2A, SZ Bioremediation: General – Emulsified oil is well-documented as a successful technology for enhanced reductive dechlorination of hot spots and areas affected by flux from DNAPL, particularly in aerobic environments, but literature regarding reduction of DNAPL mass is sparse. Citations of applicable studies would be helpful. We note the reference to the MLP/VAB Area and the successful treatment there, but also note that the highest TCE detection at that site was an order of magnitude below the highest detections at CRHE.

Response: Bioremediation has been utilized at a number of DNAPL sites, including successful applications at three NASA sites where DNAPL has been present: LC34 (Demonstration of Biodegradation of DNAPL - 2004), LC34 Partitioning Electron Donor IM Hot Spot 1, and MLP (biostimulation using ethyl lactate). It should also be noted that at facilities where EZVI has been applied (LC34, Hangar K and Paris Island) collected data and documents indicate that the mass reduction is due to both abiotic and biotic reductive dechlorination.

With regards to TCE concentrations at MLP, TCE was measured at a maximum concentration of 95,000 µg/L from DPT location MLP-PT6 in 2002 and a maximum soil concentration of 102 mg/kg of TCE was detected (MLP-RTS1). The referenced concentrations are indicators of the presence of DNAPL. Concentrations of all CVOCs were reduced to below NADCs (TCE and cDCE to below GCTL) and VC is the only COC that remains above the GCTL.

The LC34 PED IM was implemented in an area with a maximum TCE concentration of 141,000 µg/L, an average TCE concentration of 22,000 µg/L, and a maximum soil concentration of 56.2 mg/kg TCE.

The LC34 (Demonstration of Biodegradation of DNAPL) initial TCE concentration of 132,000 µg/L to 350,000 µg/L and complete dechlorination to ethene was observed, with a TCE mass removal of 98.5%. Complete dechlorination occurred with up to 92 mg/L ethene production observed.

Based on the above data, the use of MLP dechlorination rates is adequate to estimate a time to reach CAO for CRHE.

Additionally, there is an Interstate Technology and Regulatory Council guidance document that consider the bioremediation of DNAPL source zones viable and provide case studies: In Situ Bioremediation of Chlorinated Ethene: DNAPL Source Zones (BIODNAPL) – June 2008.

Jacobs Comment #7: Alternative 2A, SZ Bioremediation: General/Alternatives Description – Since contact with DNAPL is critical, please consider adding a discussion of the delivery mechanism for the emulsified oil. While the chase water will be beneficial in overall dispersion, it may be unlikely to enhance contact within DNAPL zones.

Response: Direct contact of the oil with the DNAPL is not required for bioremediation to be successful. Mass removal of DNAPL during bioremediation is due to the microorganisms dechlorinating the CVOC mass (reducing concentrations) in the dissolved phase, which creates a concentration gradient and then dissolution of the DNAPL occurs. The emulsified oil will be delivered via DPT injection (6 to 8 gpm and 30 to 45 psi) and the chase water will be used to create the desired radius of influence from each injection point.

2B – Bioremediation 10xNADC Plume

10xNADC Bioremediation Conceptual Design

- 107 DPT injection points
  - Electron donor injected from 20 to 50 ft BLS
  - Injection point spacing based on 8 ft ROI
  - Six angle-drilled injection points beneath the building
    - Avoiding angle drilling through utility corridor – only drilling from east side
  - Solar-powered groundwater recirculation system to increase flow beneath the building
  - Passive vents to avoid methane accumulation beneath the building
  - Hand auger to water table in utility corridor
  - MOT required, partially close Contractor's Road while injecting in the road
- Injection of 102 drums of emulsified oil
- DPT sampling (5 days) included to aid in design for second injection event
- Second emulsified oil injection 24 months after initial event (35 drums)
  - SZ: 50% original dose into all original locations
  - 10xNADC: 50% into half of the original locations
- Installation of 15 performance monitoring wells
  - Sample all for VOCs quarterly
  - Analyze subset of 8 wells *Dhc*, *vcrA*, sulfate, sulfide, and TOC
  - Sampling the injection and extraction wells to aid in evaluation of mass removal under building

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10xNADC Bioremediation Conceptual Design Layout

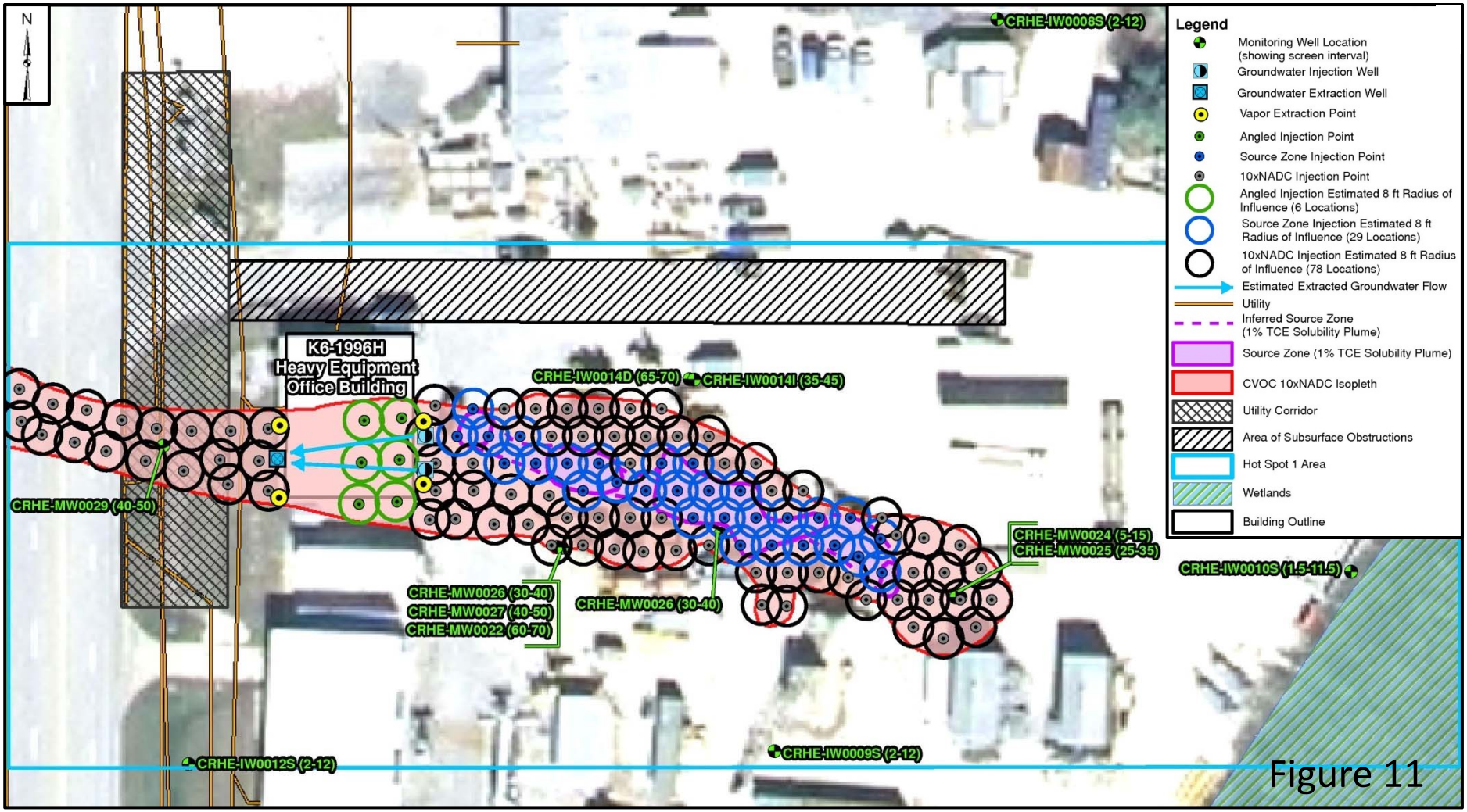
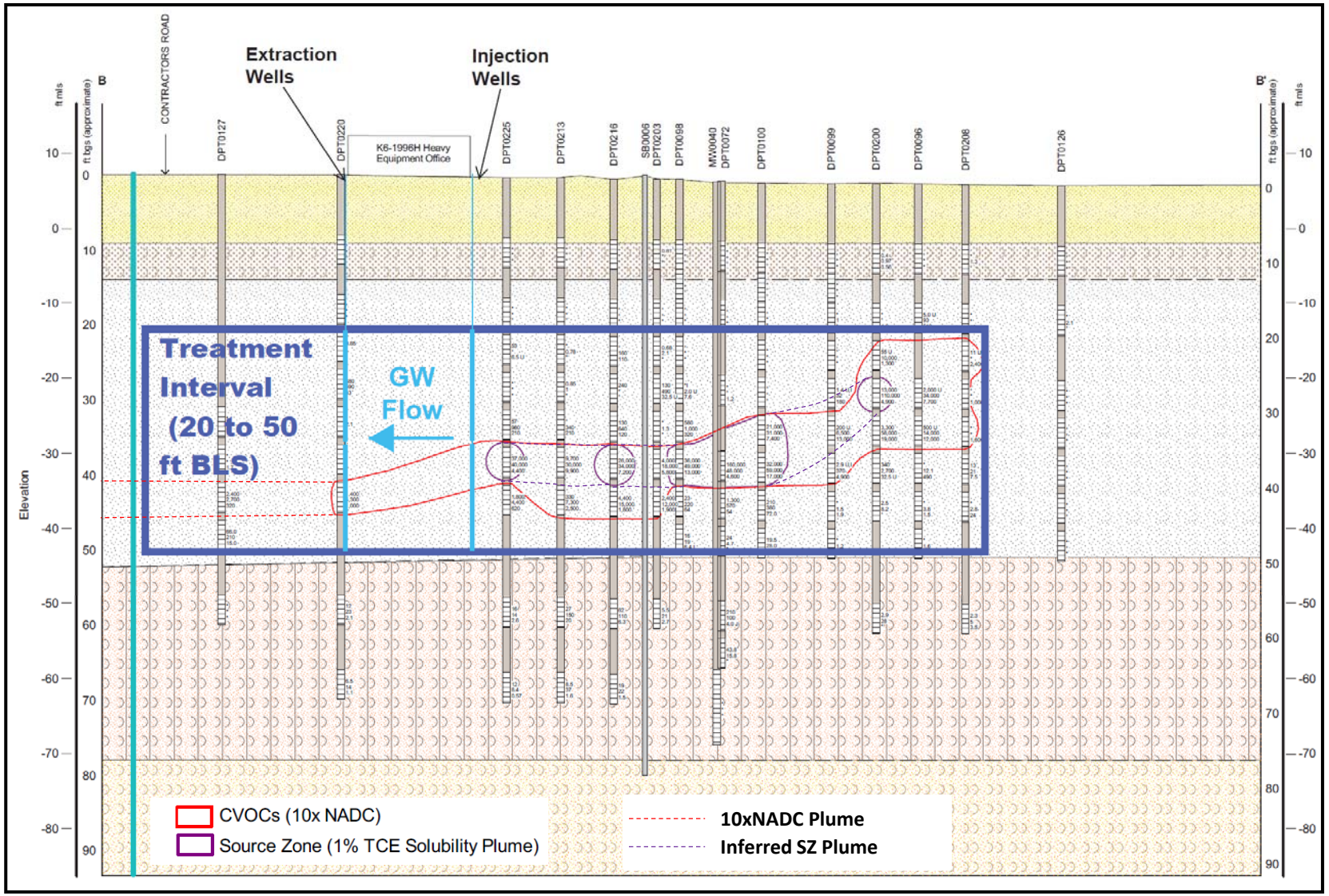


Figure 11

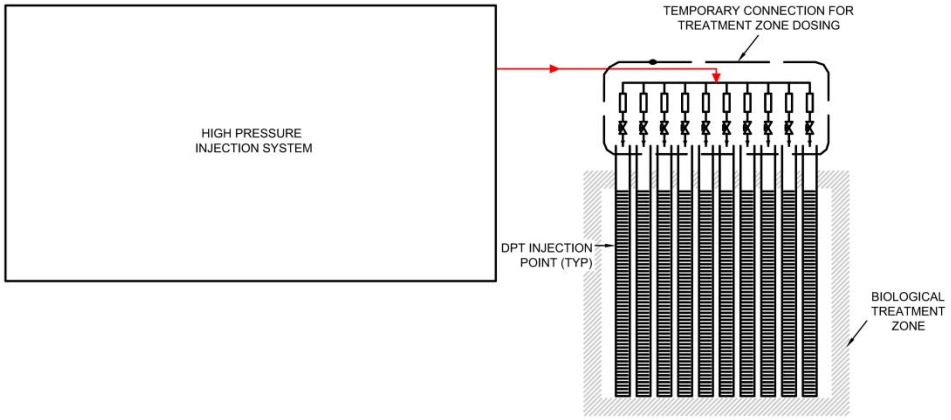
TT Comment #9: Slide 49 (new slide 72) – The passive vents, as currently placed, do not clearly appear to provide protection of methane accumulation underneath the structure. Furthermore, will the venting cause secondary issues such as odor? We recommend the methane venting approach be revised.

Response: We feel that the passive venting system is adequate for a Step 2 evaluation. The vents provide a path for any methane produced to be discharged at the roof level to the atmosphere. During the design phase, an evaluation would be performed if active venting is recommended (could add a radon type electric or solar fan, or a wind turbine to the vent stack to make the system active). It is unlikely that the passive venting will cause any secondary issues. The approach proposed has been implemented at a number of bioremediation project sites in Florida without secondary odor issues.

10xNADC Bioremediation Conceptual Design Layout



10xNADC Bioremediation Conceptual Process Flow Diagram



BIOREMEDIATION CONCEPTUAL PROCESS FLOW DIAGRAM

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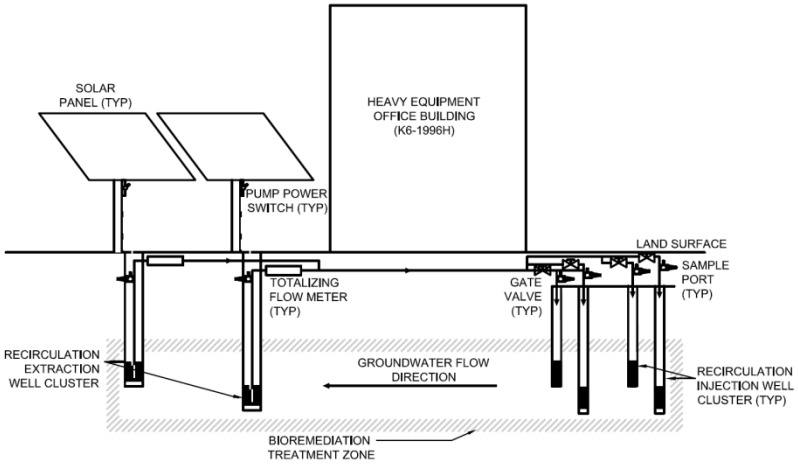

RECIRCULATION CONCEPTUAL PROCESS FLOW DIAGRAM

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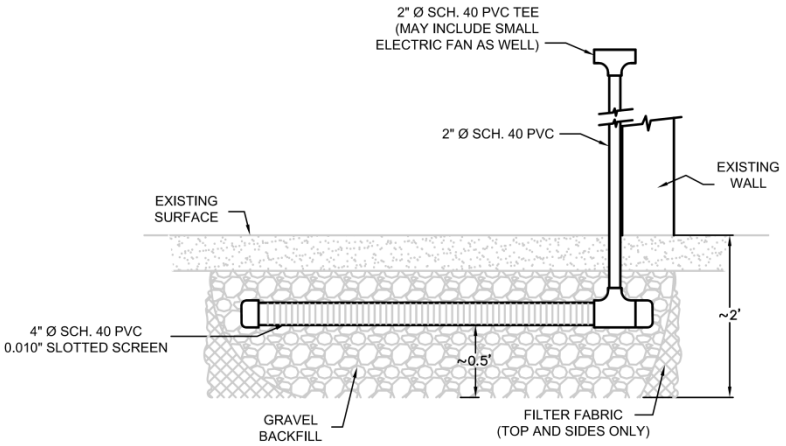

PASSIVE VENT CONSTRUCTION DETAILS

NOT TO SCALE

Figure 12

10xNADC Bioremediation Summary

SZ – Bioremediation with Recirculation	
Approximate Time to Achieve CAO	3 to 5 years
Capitol Cost Estimate	$440,500
Annual O&M Cost Estimate	$99,500
DPT Sampling Cost	$32,400
Second Injection Cost Estimate	$158,200
Total Cost Estimate	$930,000 to $1,129,000

- CAO is conservative since treating area with probable DNAPL
  - Based on MLP dechlorination rates from source area biostimulation
- Total cost estimate is cost to reach NADCs
  - Includes capital cost, DPT sampling, second injection event, and three to five years of annual O&M&M

Table 4

3A – EZVI SZ

SZ EZVI Conceptual Design

- 126 DPT injection points
  - 5% EZVI (sizes ranging from 0.1 to 5 microns) by weight
    - Used at Hangar K site at CCAFS
  - Approximately 20,500 gallons of EZVI
    - Based on filling 10% of pore space
  - EZVI injected from 20 to 50 ft BLS
  - Injection point spacing based on estimated 3 ft ROI
- Second EZVI injection event 24 months after initial event (50% the initial injection volume - 10,250 gallons)
- DPT sampling (3 days) included to aid in design of second injection event
- Installation of 10 performance monitoring wells
  - Sample all for VOCs quarterly

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Response to Comments

Jacobs Comment #11: Alternative 3A, SZ EZVI: Slide 54 (new slide 78)/Alternatives Description – What injection technique did Vironex use for development of the conceptual design? Will that technique be able to access the DNAPL pore space? Note that at Hangar K, a 6-ft. ROI was achieved using the Badger© technology. (A 6-ft ROI was also assumed in the recent injections at the GSA Reclamation Yard, but we won't have confirmation of the ROI until the first performance monitoring event.) We are concerned both that the 3-ft. ROI assumed may be overly conservative, but – at the same time – injection cost may be understated since the injection technique is not described.

Response: Vironex uses a high-performance double piston pump to inject EZVI, top down, at approximately 50 gpm to achieve lateral distribution of EZVI. The high frequency piston action of the pump helps to distribute the EZVI throughout the pore space to achieve contact with the DNAPL. Each injection interval is separated by 2 ft to help minimize creation of vertical flow paths.

The estimated 3 ft ROI was conservative, so we have also provided a less conservative costing based on an estimated 6-ft ROI. It should be noted that our definition of ROI involves achievement of complete distribution of injectate throughout the desired target interval (not an indicator of a seam of EZVI at 6 ft); accordingly, we used a more conservative 3 ft ROI since the ZVI component is dependent on contact to achieve the desired abiotic reductions intended to target DNAPL. This non-conservative costing resulted in a capital cost range of $673,000 to $734,000 and the second injection cost ranged from $306,000 to $336,000 (total cost reduction of $90,000). For the source zone, this would reduce the cost range from $1,240,000 to $1,340,000 to $1,149,000 to $1,249,000. For the 10X NADC area, this would reduce the cost range from $1,718,000 to $1,883,000 to $1,628,000 to $1,793,000. The cost driver for EZVI is the purchase of the material (~$700,000 for two injection events); accordingly, the less conservative 6 ft ROI does not have a significant bearing on the range of costs.

TT Comment #10: Slide 54/59 (new slide 78/86) – The injection radius of influence (ROI) of 3 feet is very conservative and may bias the costs of emulsified zero-valent iron (EZVI) alternatives. We suggest the spacing be revisited.

Response: The costing was updated to evaluate a non-conservative 6 ft ROI and is included in the response to Jacobs' comment #11 above.

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SZ EZVI
Conceptual Design Layout

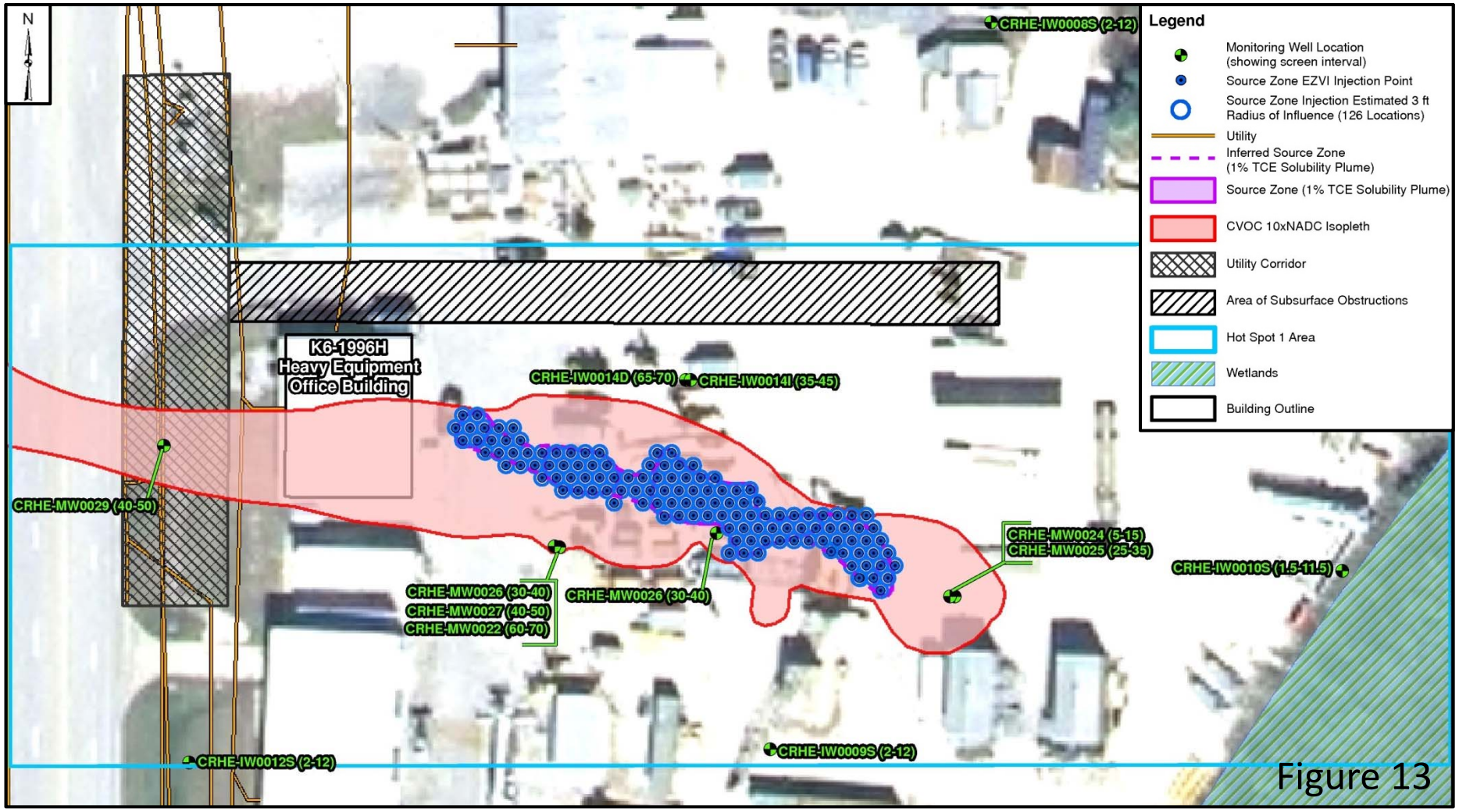
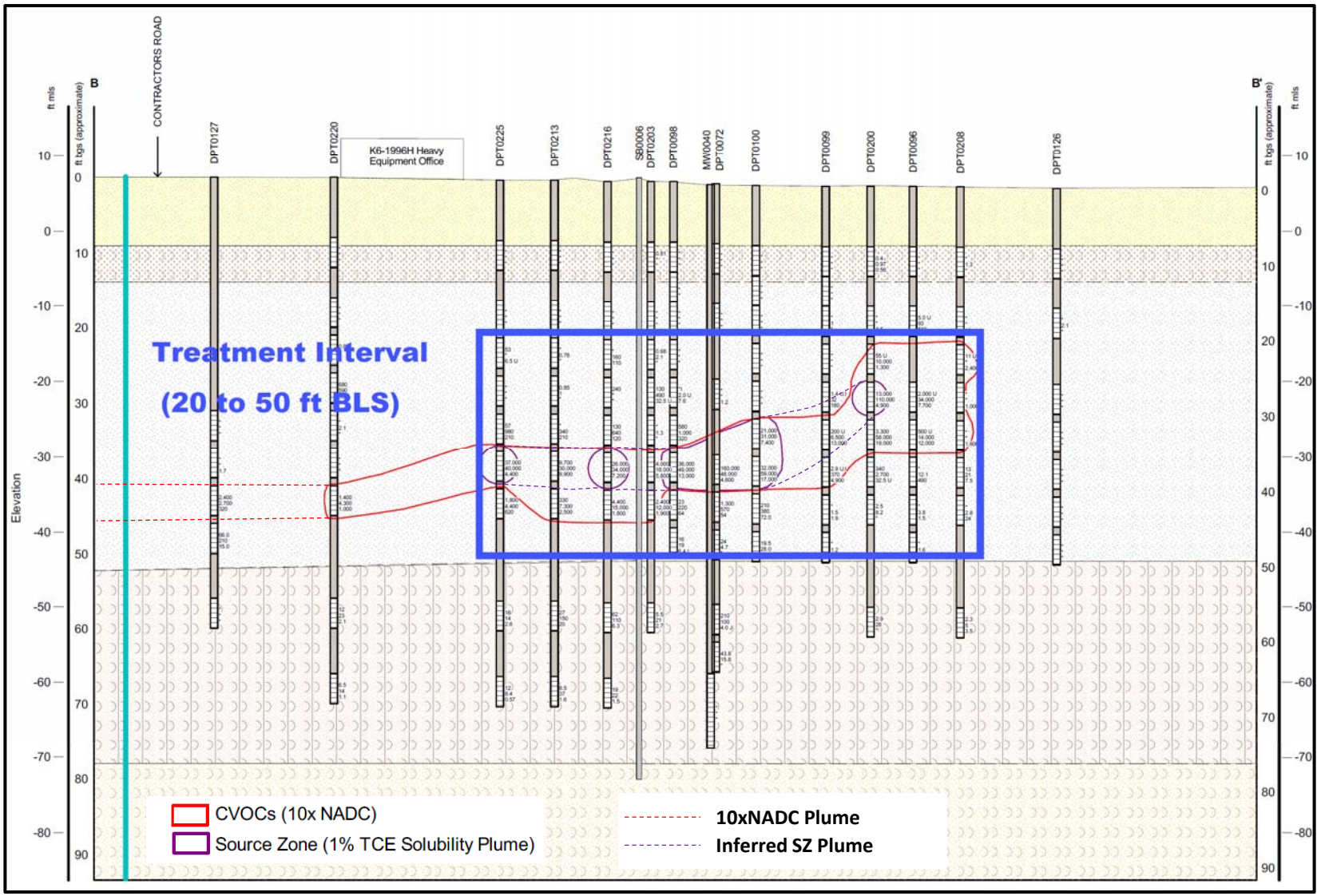


Figure 13

SZ EZVI
Conceptual Design Layout



SZ EZVI Summary

SZ – EZVI	
Approximate Time to Achieve CAO	3 to 5 years
Capitol Cost Estimate	$734,100
Annual O&M Cost Estimate	$50,000
DPT Sampling Cost	$19,700
Second Injection Cost Estimate	$335,800
Total Cost Estimate	$1,240,000 to $1,340,000

- CAO is conservative since treating area with probable DNAPL
  - Based on results from Hanger K
- Total cost estimate is cost to reach NADCs
  - Includes capital cost, second injection event, and three to five years of annual O&M&M

Table 5

Response to Comments

Jacobs Comment #12: Alternative 3A, SZ EZVI: Slide 57 (new slide 83) – Regarding time to achieve CAO based on results from Hangar K: At Hangar K, TCE concentrations were reduced by 88% six months after the first injection. After a pre-programmed second injection and a total elapsed time of 18 months from the first injection, TCE concentrations were reduced by 99%. It does not appear that NADC for all chlorinated VOCs will be reached within 5 years.

Response: The concentrations at Hangar K were higher and the impacted area was larger than what is observed at CRHE; two 200 ppm TCE plumes were delineated that were approximately 3,000 and 6,200 square feet (with impacts from ~ 30 to 52 ft BLS).

To reduce the average CVOC concentrations to their NADCs in the SZ, a reduction in mass of 98.4% (VC), 98.5% (cDCE), and 99.6% (TCE) is required. If the removal is based on the maximum concentrations, a concentration reduction of 99.8% (TCE), 99.4% (cDCE) and 99.5% (VC) is required. Based on the site conditions, we believe a 5 year timeframe is adequate for these reductions.

3B – EZVI and Bioremediation with Recirculation 10xNADC Plume

SZ EZVI and 10xNADC Bioremediation Conceptual Design

- EZVI in the Source Zone – same as Alternative 3A
  - 5% EZVI (sizes ranging from 0.1 to 5 microns) by weight
  - Approximately 20,500 gallons of EZVI
  - EZVI injected from 20 to 50 ft BLS
  - Injection point spacing based on 3 ft ROI
- Bioremediation in the 10xNADC – same as 10xNADC area in Alternative 2B
  - 78 DPT injection points
  - Injection point spacing based on 8 ft ROI
  - Six angle-drilled injection points beneath the building
  - Solar-powered groundwater recirculation system to increase flow beneath the building
  - Passive vents to avoid methane accumulation beneath the building
  - Hand auger to water table in utility corridor
  - MOT required, partially close Contractor's Road while injecting in the road
- DPT sampling (5 days) included to aid in design of second injection event
- Second injection 24 months after initial event (SZ: 50% initial injection volume, 10xNADC with 50% into half of the original locations)
- Installation of 15 performance monitoring wells
  - Sample all for VOCs quarterly
  - Analyze subset of 3 wells for *Dhc, vcrA*, sulfate, sulfide, and TOC
  - Sampling of injection and extraction wells to evaluate mass removal under building

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SZ EZVI and 10xNADC Bioremediation Conceptual Design Layout

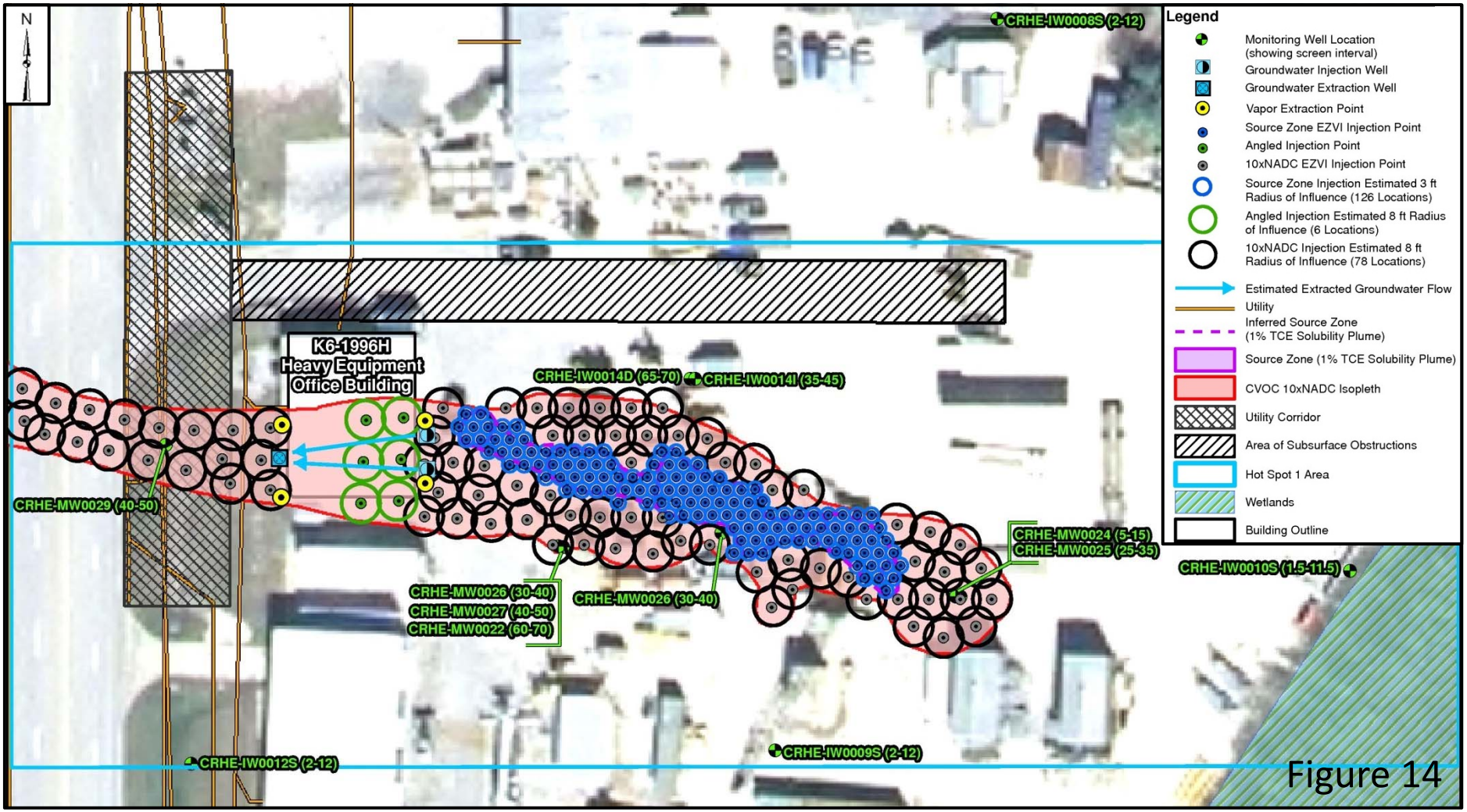
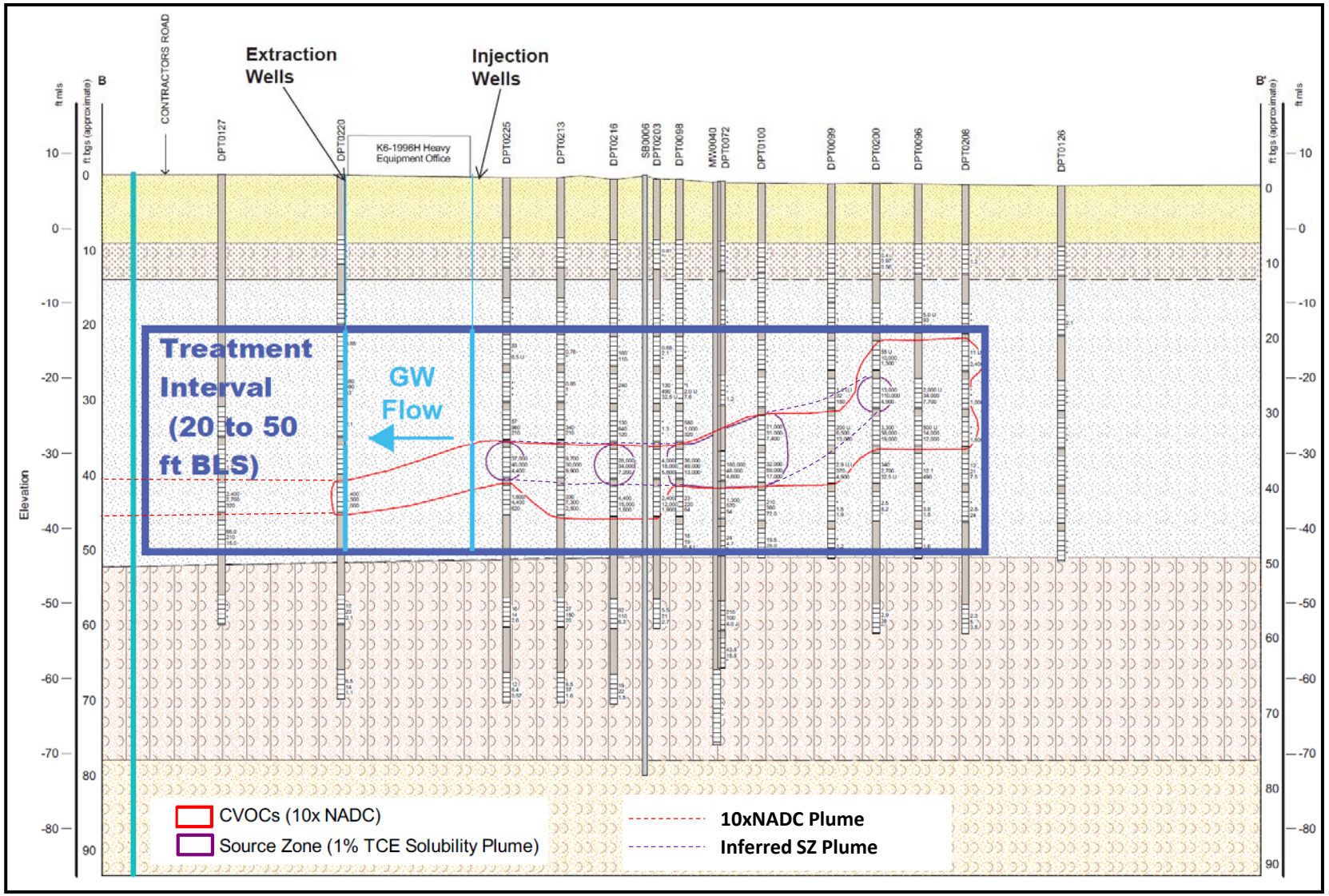
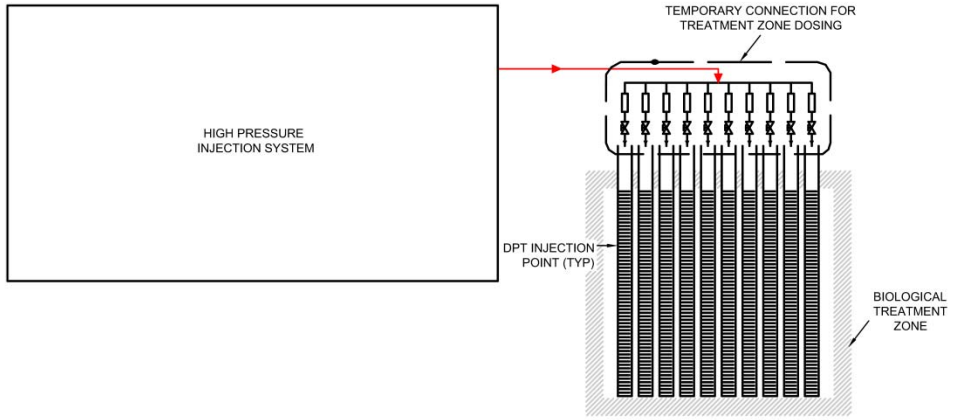


Figure 14

SZ EZVI and 10xNADC Bioremediation Conceptual Design Layout

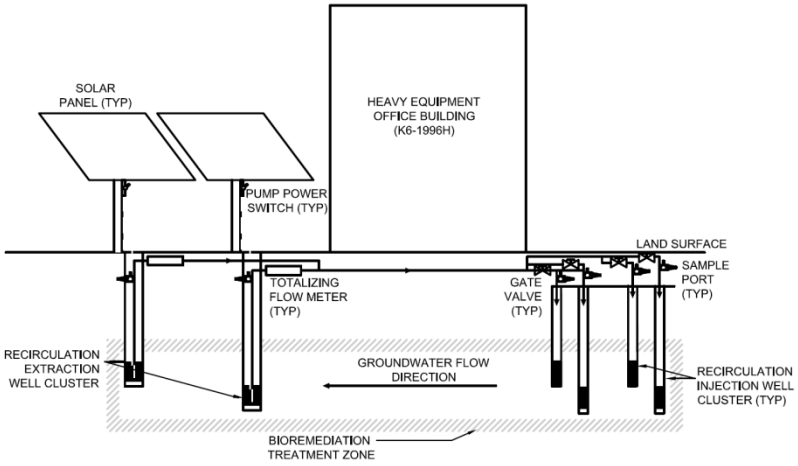


SZ EZVI and 10xNADC Bioremediation Conceptual Design Layout



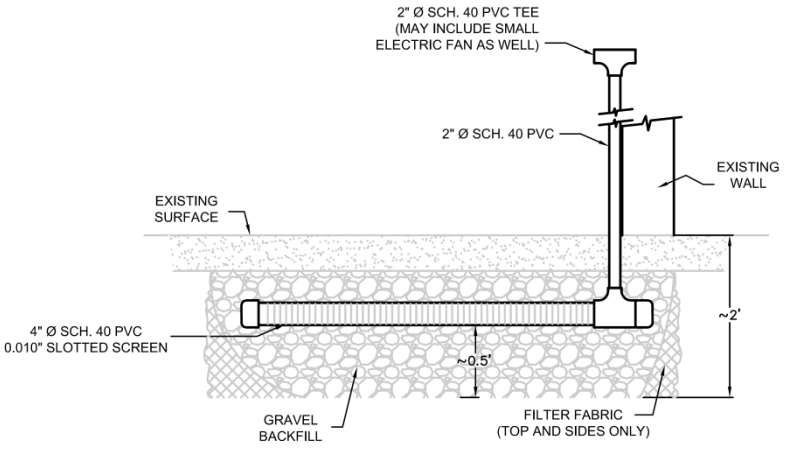
BIOREMEDIATION CONCEPTUAL PROCESS FLOW DIAGRAM

NOT TO SCALE



RECIRCULATION CONCEPTUAL PROCESS FLOW DIAGRAM

NOT TO SCALE



PASSIVE VENT CONSTRUCTION DETAILS

NOT TO SCALE

Figure 12

SZ EZVI and 10xNADC Bioremediation Summary

SZ – EZVI and Bioremediation with Recirculation	
Approximate Time to Achieve CAO	3 to 5 years
Capitol Cost Estimate	$1,009,700
Annual O&M Cost Estimate	$82,500
DPT Sampling Cost	$32,400
Second Injection Cost Estimate	$428,400
Total Cost Estimate	$1,718,000 to $1,883,000

- CAO is conservative since treating area with probable DNAPL
  - Based on Hangar K results
- Total cost estimate is cost to reach NADCs
  - Includes capital cost, second injection event, and three to five years of annual O&M&M

Table 6

Jacobs Comment #14: Alternative 3B, 10X NADC Plume EZVI and Bioremediation with Recirculation: Slide 63 (new slide 90) – Similar to the note regarding Slide 57: At Hangar K, the HCP was treated using emulsified vegetable oil and lactate. Early indications are that the dissolved plume's decay has accelerated through the combination of SZ and HCP treatment, but it does not appear that NADC for all chlorinated VOCs will be reached within 5 years.

Response: The calculation of time to reach NADC for each CVOC using enhanced bioremediation was based on MLP dechlorination rates and we feel this is an appropriate approximation.

Response to Comments

Jacobs Comment #13: Alternative 3B, 10X NADC Plume EZVI and Bioremediation with Recirculation: General – EZVI was engineered specifically as a DNAPL technology. Consider reducing the footprint of the EZVI application in the inferred SZ. When using EZVI in combination with technologies that enhance biological degradation, please consider applying EZVI only in the zones where the TCE concentrations exceed 10% of solubility. At Hangar K, EZVI was applied in zones where TCE concentrations were ≥200 ppm.

Response: There are only two locations at CRHE with TCE concentrations near 10% TCE solubility (110,000 µg/L): DPT0072 from 36 to 40 ft BLS (160,000 µg/L) and DPT0134 from 36 to 40 ft BLS (100,000 µg/L); therefore, adjusting the treatment area to encompass the 10% solubility would create a small treatment area. The footprint for EZVI injection was agreed upon in the Step 1 to evaluate the implementation in the area where TCE is greater than 1% solubility. A reduction of the vertical treatment interval, currently from 20 to 50 ft BLS, can be evaluated during the design phase, by utilizing the DPT sampling data to reduce the vertical treatment interval.

Alternative		Advantages	Disadvantages	Limitations	Expectations	Sustainability
1A	Air Sparge and Soil Vapor Extraction in SZ	Demonstrated technology at nearby sites; local site geology well understood; short duration anticipated (<3 years).	Energy intensive; high O&M; potential for offsite plume migration.	Heavy equipment on site - equipment wheel loads could require specialized vault boxes and trenching design.	Rapid volatilization of CVOCs to less than NADCs achieved in 3 years or less.	Short cleanup timeframe, reusable treatment system, significant power and O&M requirements. Trenching and infrastructure installation required.
1B	Air Sparge and Soil Vapor Extraction in 10xNADC	Demonstrated technology at nearby sites; local site geology well understood; short duration anticipated (<3 years).	Energy intensive; high O&M; potential for offsite plume migration.	Heavy equipment on site. Weight of equipment may damage air sparge wells, SVE Chambers and/or piping. Occupied building requires angled drilling and vapor treatment. Congested utility corridor requires hand digging to water table.	Rapid volatilization of CVOCs to less than NADCs achieved in 3 years or less.	Short cleanup timeframe, reusable treatment system, significant power and O&M requirements. Trenching and infrastructure installation required.
2A	Bioremediation - Biostimulation using emulsified oil in SZ	Passive in situ approach; low O&M cost; demonstrated technology in other areas of KSC with similar lithology/constituents. Aquifer conditions are anaerobic. Limited treatment footprint with no infrastructure installation.	Large number of injection locations required, potential for additional injections beyond those budgeted, and potential for incomplete dechlorination.	Possibility of DNAPL present and slower dechlorination rates.	Reductive dechlorination of CVOCs to ethene within 3 to 5 yrs.	In situ technology with no monthly O&M or electrical power requirements.
2B	Bioremediation - Biostimulation using emulsified oil in 10xNADC	Passive in situ approach; low to medium O&M cost; demonstrated technology in other areas of KSC with similar lithology/constituents. Aquifer conditions are anaerobic.	Large number of injection locations required, potential for additional injections beyond those budgeted, and potential for incomplete dechlorination. O&M required for recirculation wells.	Occupied building requires angled drilling and vapor treatment. Congested utility corridor requires hand digging to water table.	Reductive dechlorination of CVOCs to ethene within 3 to 5 yrs.	In situ technology. Solar powered - low electrical demand.

Technology Comparison

Alternative		Advantages	Disadvantages	Limitations	Expectations	Sustainability
3A	EZVI in SZ	Passive in situ approach with low O&M cost. Limited treatment footprint. Expected biodegradation of COCs.	Large number of injection locations required, potential for additional injections beyond those budgeted, and potential for incomplete dechlorination.	Contact is important for success of this technology; distribution via injection could be problematic.	Abiotic reductive dechlorination of CVOCs to ethene within 3 to 5 yrs.	In situ technology with no monthly O&M or electrical power requirements.
3B	EZVI with Bioremediation - EZVI in SZ and biostimulation using emulsified oil in 10xNADC	Passive in situ approach; low O&M cost; demonstrated technology in other areas of KSC with similar lithology/constituents. Aquifer conditions are anaerobic. Limited treatment footprint for EZVI.	Large number of injection locations required, potential for additional injections beyond those budgeted, and potential for incomplete dechlorination. O&M required for recirculation wells.	Occupied building requires angled drilling and vapor treatment. Congested utility corridor requires hand digging to water table.	Abiotic reductive dechlorination of CVOCs to ethene within 3 to 5 yrs.	In situ technology. Solar powered - low electrical demand.

Sustainability Assessment

Remediation Technology	Green House Gas (GHG) Emissions (metric ton)	Total Energy Used (MMBTU)	Water Consumption (gallons)	NOx Emissions (metric ton)	SOx Emissions (metric ton)	Particulate Matter (PM10) Emissions (metric ton)
Source Zone Air Sparging/Soil Vapor Extraction	243	3,741	175,703	0.38	0.58	0.004
10xNADC Air Sparging/Soil Vapor Extraction	254	3,894	176,403	0.44	0.59	0.009
Source Zone Bioremediation	48	741	124,875	0.15	0.10	0.005
10xNADC Bioremediation	87	1,355	246,675	0.28	0.16	0.011
Source Zone EZVI	28	338	230,020	0.08	0.03	0.005
Combination Source Zone EZVI 10xNADC Bioremediation	46	639	351,820	0.13	0.05	0.008

- AS/SVE high GHG due to electrical use during operation
- Total energy due to electricity during operation (AS/SVE) and due to manufacture of vegetable oil (Bio) and EZVI
- Water consumption due to electricity usage and dilution water
- NOx and SOx due to equipment use
- PM10 due to electricity usage and equipment use (drilling)

Technology Cost Comparison
Source Zone Treatment

Alternative		Capital Cost	Annual Cost Year One	Annual Costs Year Two	Annual Costs Year Three	Annual Costs Year Four	Annual Costs Year Five	Estimated Time to NADC	Total "Pay as You Go" Cost (Active Remediation)	Present Value Cost (Active Remediation)
Units		$	$	$	$	$	$	Years	$	$
1A	SZ AS/SVE	$252,900	$96,200	$115,900	N/A	N/A	N/A	2	$470,000	$450,000
		$252,900	$96,200	$115,900	$96,200	N/A	N/A	3	$560,000	$550,000
2A	SZ Bioremediation	$167,400	$60,000	$149,600	$60,000	N/A	N/A	3	$440,000	$420,000
		$167,400	$60,000	$149,600	$60,000	$60,000	$60,000	5	$560,000	$540,000
3A	SZ EZVI	$734,100	$50,000	$405,500	$50,000	N/A	N/A	3	$1,240,000	$1,220,000
		$734,100	$50,000	$405,500	$50,000	$50,000	$50,000	5	$1,340,000	$1,310,000

Net rate of return is 5%

Table 7

Technology Cost Comparison
Source Zone Treatment

Alternative		Total "Pay as You Go" Cost (Active Remediation)	Estimated CVOC Mass Removed	Estimated Cost per Pound of CVOC Mass Removed
Units		$	lbs	$/lbs
1A	SZ AS/SVE	$450,000	58	$8,100
		$550,000		$9,700
2A	SZ Bioremediation	$420,000	58	$7,600
		$540,000		$9,700
3A	SZ EZVI	$1,220,000	58	$21,400
		$1,310,000		$23,100

Mass removed is estimated mass based on reducing concentrations to NADC in the treatment areas

Table 7

Geosyntec consultants

Technology Cost Comparison 10X NADC Area

Alternative		Capital Cost	Annual Cost Year One	Annual Costs Year Two	Annual Costs Year Three	Annual Costs Year Four	Annual Costs Year Five	Estimated Time to NADC	Total "Pay as You Go" Cost (Active Remediation)	Present Value Cost (Active Remediation)
Units		$	$	$	$	$	$	Years	$	$
1B	10xNADC AS/SVE	$424,600	$121,200	$153,600	N/A	N/A	N/A	2	$700,000	$690,000
		$424,600	$121,200	$153,600	$121,200	N/A	N/A	3	$820,000	$800,000
2B	10xNADC Bioremediation	$440,500	$99,500	$290,100	$99,500	N/A	N/A	3	$930,000	$910,000
		$440,500	$99,500	$290,100	$99,500	$99,500	$99,500	5	$1,130,000	$1,100,000
3B	SZ EZVI 10xNADC Bioremediation	$1,009,700	$82,500	$543,300	$82,500	N/A	N/A	3	$1,720,000	$1,680,000
		$1,009,700	$82,500	$543,300	$82,500	$82,500	$82,500	5	$1,880,000	$1,840,000

Net rate of return is 5%

Table 7

Technology Cost Comparison
Source Zone Treatment

Alternative		Total "Pay as You Go" Cost (Active Remediation)	Estimated CVOC Mass Removed	Estimated Cost per Pound of CVOC Mass Removed
Units		$	lbs	$/lbs
1B	10xNADC AS/SVE	$700,000	152	$4,600
		$820,000		$5,400
2B	10xNADC Bioremediation	$930,000	152	$6,100
		$1,130,000		$7,400
3B	SZ EZVI 10xNADC Bioremediation	$1,720,000	152	$11,300
		$1,880,000		$12,400

Mass removed is estimated mass based on reducing concentrations to NADC in the treatment areas

Table 7

Jacobs Comment #15: Technology Comparison and Technology Cost Comparisons – For SZ Alternatives 1A (air sparging) and 2A (emulsified oil), we are concerned that the lack of documented performance history for these technologies for DNAPL treatment may result in some understatement of both the estimated time to achieve CAO and the treatment cost. Treatment success at CRHE will largely depend on the amount of DNAPL present and how efficiently that DNAPL mass is removed or controlled. Inclusion of applicable site or study information would be very helpful.

Response: See responses to comment #2 and #6 above.

TT Comment #12: Cost Estimate, Global Comment – The cost estimates do not clearly identify if direct or burdened costs are presented in the Step 2 EE. Please clarify.

Response: The cost estimates are fully burdened.

Response to Comments

TT Comment #11: Slide 71 (new slide 104) – Prior to concurring with the selection of bioremediation, we suggest that the EZVI alternatives be revisited per Comment 10. Although there is limited case study literature available regarding the efficacy of bioremediation of dense non-aqueous-phase liquid (DNAPL), the limitations of bioremediation may be understated in this ADP. Additionally, we suggest screening bioremediation substrates that contain ZVI as a supplement to the bioremediation alternatives.

Response: The costing was revised using a 6 ft ROI and is included in the response to Jacob's comment #11 above. See comment #6 for discussion of bioremediation in DNAPL source zones. We feel that emulsified oil is the best substrate for implementing bioremediation at this site.

Technology Evaluation Summary

- All three technologies are capable of treating COCs
- Why not air sparging?
  - Trenching at an active facility with large pieces of equipment and personnel that work in the area
  - Heavy equipment will likely require specialty vault boxes and geotech evaluation for trenching
  - Likely mounding from AS and possible entrainment issue with SVE
  - Scale up/expansion issues (when looking at plume as a whole) – due to presence of road/railroad yard and woods/wetland
  - Engineering solutions can be developed, but there are risks
- Why Bioremediation?
  - Passive implementation
  - Ideal geochemistry
  - Reduced O&M&M (monitoring only)
  - Amenable to scaling
  - More cost effective than EZVI

Path Forward

- Recommend bioremediation of the source zone
  - AS/SVE is less expensive per pound and total "Pay as You Go", but bioremediation offers:
    - A more passive technology at a busy site
    - Reduced impact to operations
    - Reduced risk of damage to utilities or to the treatment system during operation
    - Reduced risk of failure – AS/SVE mounding likely to cause entrainment issues for SVE with potential exposure to personnel
- Test consensus

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CONTRACTOR'S ROAD HEAVY EQUIPMENT AREA: HOT SPOT 1
DESCRIPTION OF ALTERNATIVES

OVERVIEW

The Contractor's Road Heavy Equipment (CRHE) Area Step 1A and 1B Engineering Evaluation Advanced Data Packages (ADPs) for Hot Spot 1 were presented at the December 2013 Kennedy Space Center Remediation Team meeting. During the Step 1 Engineering Evaluation, the source zone was defined as the area with concentrations of trichloroethene (TCE) greater than 11,000 micrograms per liter (µg/L). Based upon the proximity of adjacent source zone contours, the separately contoured areas were combined to form an overall source zone area for the evaluation of remedial technologies as presented on **Figure 1** (of the ADP). The source zone is approximately 0.07 acres (3,050 square feet) and is located east of the Heavy Equipment Office Building (K6-1996H).

The ten times Natural Attenuation Default Concentration (10xNADC) area is defined as the area with groundwater TCE, *cis*-1,2-dichloroethene (cDCE), and vinyl chloride (VC) concentrations greater than ten times their respective NADC. The 10xNADC plume encompasses the source zone and extends west beneath the Heavy Equipment Office Building (M6-1996H), a utility corridor, and Contractor's Road. The western portion of the 10xNADC plume is defined by the Hot Spot 1 boundary, located at the west edge of Contractor's Road. The 10xNADC plume is approximately 0.44 acres (19,000 square feet). The area within the 10xNADC plume that does not include the source zone is referred to as the 10xNADC ring.

Based on the Step 1B, aggressive treatment technologies retained for further evaluation for the source zone consisted of:

- air sparging/soil vapor extraction (AS/SVE);
- bioremediation; and
- emulsified zero valent iron (EZVI) injection.

Aggressive treatment technologies retained for further evaluation of the 10xNADC area consisted of:

- AS/SVE;
- bioremediation; and
- EZVI injection in the source zone/bioremediation of the 10xNADC ring.

Additionally, institutional controls were retained for all remedial alternatives.

The Corrective Action Objective (CAO) used in this evaluation is to reduce TCE, cDCE, and VC concentrations to less than NADCs or concentrations which will facilitate a transition to natural

attenuation monitoring (NAM). Descriptions of the treatment technologies and conceptual designs are provided in the following sections.

AIR SPARGING / SOIL VAPOR EXTRACTION - OVERVIEW

Air sparging is a proven technology at KSC sites that entrains contaminants in air injected into the subsurface. Volatilized contaminants are released to the atmosphere or collected using an SVE system (because of the mass present in the subsurface and presence of nearby structures and personnel).

For each air sparging scenario considered, the system would include the hollow stem auger installation of 2-inch diameter schedule 40 PVC air sparge wells to a total depth of 50 ft below land surface (BLS) with a 20″ Schumasoil well screen installed from approximately 48 to 50 feet BLS. The air sparge wells would transition to 1- inch diameter galvanized steel pipe approximately 12 inches below grade. Wells would be completed flush with land surface with a 16-inch diameter steel manhole or 18″ x 18″ x 24″ steel vault box set in a concrete pad. The well head at each air sparge well would include a gate valve and a check valve. Upstream of the well head the piping would transition to SCH 80 PVC that would be buried at least 24 inches below grade. The PVC piping would run from the sparge wells to the manifold, which would house pressure gauges and flow meters for each well. The piping from the manifold would run to the equipment trailer, located near an electrical transformer, where the piping would transition to galvanized steel for the above ground connections to the trailer. Both air sparge scenarios assume the use of an existing air sparge trailer, which would alternate operation of two or three zones.

In consideration of the existing structures, workers, and NASA request, an SVE system is proposed to protect personnel working in the area and to alleviate the potential accumulation of contaminants in the vapor phase beneath the building (which could result in a release of vapor to indoor air). The new, trailer mounted, minimum 10-horsepower blower will be piped below grade to a network of SVE chambers located at approximate 20 foot intervals around the building and through the source zone. The chambers will be constructed of 4-inch diameter slotted PVC pipe laid in a 1-ft x 2-ft x 5-ft "chamber" lined with filter fabric and filled with pea gravel. The greater surface area (compared to that provided by a standard SVE well) will allow for greater airflow at a lower vacuum, increasing the SVE system effectiveness. To aid in the effectiveness of the SVE system, a plastic cap will be installed over the treatment area to prevent water infiltration, reduce emissions of fugitive vapors, prevent vertical short-circuiting of air flow, and to increase the design ROI. Off-gases would be treated using vapor-phase granular activated carbon (GAC).

In addition to the installation of the air sparge/SVE system, performance monitoring wells would be installed using direct push technology (DPT) drilling to supplement the existing monitoring well network at the site. Each scenario includes quarterly sampling of the newly installed performance monitoring well network (10 or 15 monitoring wells) for chlorinated volatile organic compound

(CVOC) analysis. AS/SVE is expected to meet the CAO within two to three years based on experience at other sites at KSC and in Florida.

Included in the air sparge evaluation is DPT groundwater sampling (three or five days) to aid in evaluation of air sparge system optimization or to aid in evaluation of shutting down the system.

Air Sparging/Soil Vapor Extraction – Source Zone

Air sparging in the source zone would include the installation of an estimated 13 vertical air sparge wells, as described in the previous section. Air sparge wells would be spaced conservatively (approximately 20 feet between wells), with an estimated 20-ft radius of influence (ROI), allowing for a robust overlap of influence from adjacent wells. The spacing of the air sparge wells was more conservative, since the presence of dense non-aqueous phase liquid (DNAPL) is possible. The specific number and spacing of the air sparge wells would be refined in the interim measure (IM) design.

The SVE system would be constructed with an estimated 11 chambers as described in the previous section. The radius of influence expected from the SVE system is approximately 20 to 30 ft as observed at other Florida sites with similar vadose zone lithology. Operation and maintenance would be performed on the AS/SVE system for the first three days of operation, weekly for the remainder of the first month of operation, and monthly thereafter.

Up to 10 performance monitoring wells would be installed, using DPT drilling, to supplement the existing monitoring well network at the site. The performance monitoring network (10 monitoring wells) would be sampled quarterly for chlorinated volatile organic compounds (CVOCs).

Air Sparging/Soil Vapor Extraction – 10xNADC Area

Air sparging in the 10xNADC Area would include the installation of an estimated 29 vertical air sparge wells and five angle-drilled wells. AS/SVE of the 10xNADC area involves the following design constraints and implementation considerations:

- Vertical air sparge wells cannot be readily installed beneath the Heavy Equipment Office Building (K6-1996H) because it is currently in use by personnel; therefore, the following approach was utilized for the feasibility study evaluation and layout:
    - angle-drilled air sparge wells (five) installed via sonic drilling methods from land surface east of the building (to avoid drilling in the utility corridor) beneath the building to aid in air distribution; and
    - SVE chambers along the building's exterior walls to avoid accumulation of potential vapors beneath the occupied building.

- Utilities in the corridor east of Contractor's Road will require hand digging to the water table prior to drilling any locations in this area and all trenching will be performed by hand;
- Maintenance of Traffic (MOT) will be required to shut down part of Contractor's Road during installation of air sparge wells and piping beneath and adjacent to the roadway.

Air sparge well spacing in the source zone and under the building was approximately 20 feet between wells. The well spacing for the 10XNADC ring was approximately 30 feet between wells. The ROI is assumed to be 20 ft. The SVE system would be constructed with 16 of the SVE chambers described in the overview section, with five of those chambers located around the building's footprint.

Operation and maintenance of the system would be performed for the first three days of operation, weekly for the remainder of the first month of operation, and monthly thereafter.

Up to 15 performance monitoring wells would be installed, using DPT drilling, to supplement the existing monitoring well network at the site. The performance monitoring network (15 monitoring wells) would be sampled quarterly for CVOCs.

BIOREMEDIATION - OVERVIEW

Bioremediation via biostimulation involves the injection of an electron donor into the subsurface to promote reductive dechlorination utilizing the native microbial population. The electron donor provides a substrate for the anaerobic microorganisms to promote respiration of the chlorinated solvents. As the microorganisms consume the electron donor, they (i) create a reducing environment and (ii) provide electron donor for the dechlorinating organisms. Groundwater sampling has determined that *Dehalococcoides (Dhc)* organisms are present at concentrations of approximately 10^7 gene copies per liter of groundwater and that the vinyl chloride reductase gene (*vcrA*) is present (approximately 10^6 gene copies per liter of groundwater), ensuring capability to reduce CVOCs to ethene. Groundwater geochemical data, in combination with *Dhc*, *vcrA*, and ethene concentrations, provide confirmation that biological reductive dechlorination is occurring at CRHE.

The proposed electron donor for cost estimating purposes is EOS PRO (60% oil), a commercially available food grade emulsified oil substrate with Vitamin B12 supplement. The electron donor would be delivered to the subsurface via DPT injection points with 16 foot spacing center to center (assumes a ROI of approximately 8 feet). The estimated 8 ft ROI has been achieved at other NASA-KSC bioremediation injection sites, and groundwater movement over time will further support the distribution of the electron donor. It is assumed for Step 2 cost evaluation purposes that the injection will be performed by Vironex and Vironex will provide the

necessary specialized equipment (tanks, pumps, and hoses for dilution and mixing of electron donor) and the DPT rig for injection.

The estimated electron donor calculations (volume of EOS PRO required) is provided in **Table A-1**. Based on experience implementing bioremediation at other sites, the volume of emulsified oil utilized ranges from 0.1 to 1% of the pore volume within the treatment area. **Table A-1** provides the estimation of the amount of EOS PRO that would be required to fill 0.1 to 1% of the pore volume and also provides the vendor recommended dosing. The volume of electron donor chose from each treatment area was conservatively estimated to be within the range of the 0.1 to 1%.

Bioremediation is expected to meet the CAO within three to five years based on dechlorination rates from the source zone biostimulation at the Vehicle Assembly building/Mobile Launch Pad site.

Bioremediation – Source Zone

Bioremediation of the source zone includes treatment of the area with TCE concentrations greater than 1% solubility (11,000 µg/L) and includes the injection of approximately 1,700 gallons (33 drums; 52.5 gallons per drum) of electron donor into 29 injection points. The volume of electron donor will fill approximately 0.5% of the pore volume, which is a conservative estimate based on the possibility of DNAPL being present. It is assumed that the EOS will be diluted 1:20 prior to injection and that chase water will be required to achieve the estimated 8 ft ROI. The solution will be injected over the 20 to 50 ft BLS treatment interval.

For costing and evaluation purposes, a second injection event was budgeted for approximately 24 months following the initial event. The second injection event assumes injection of 50% of the original EOS PRO volume (17 drums), which will fill 0.25% of the pore volume with EOS PRO. The same number of injection locations (29) will be utilized during this second injection. It is assumed that the EOS will be diluted 1:20 prior to injection and that chase water will be required to achieve the estimate 8 ft ROI.

Up to 10 performance monitoring wells would be installed, using DPT drilling, to supplement the existing monitoring well network at the site. The performance monitoring network (10 monitoring wells) would be sampled quarterly for CVOCs, with five of the samples additionally analyzed for biological and geochemical parameters (*Dhc*, *vcrA*, sulfate, sulfide, and total organic carbon [TOC]).

Bioremediation - 10xNADC Area

Bioremediation of the 10xNADC area includes the source zone, as described above, as well as the 10xNADC ring (the area of 10XNADC outside the source area). Bioremediation of the 10xNADC area would follow a similar approach to source zone bioremediation, with the addition of the following design constraints and implementation considerations:

- Vertical injection points cannot be readily installed beneath the Heavy Equipment Office Building (K6-1996H) because it is currently in use by personnel; therefore, the following recommendations are made:
    - angle-drilled injection points (six) beneath the building to aid in amendment injection (only six points are included because assuming will only drill from east side of building to avoid angle drilling through utility corridor and DPT rig has limited capability to reach under building);
    - emulsified oil dosing under the building would be based on the pore volume present under the building and that volume would be injected into the six injection locations;
    - use of existing (from GSA Seized Property IM) solar-powered recirculation system (two solar panels and two pumps) to aid in amendment distribution under the building; and
    - passive vents along the building's exterior walls to avoid potential accumulation of methane beneath the occupied building.
- Utilities in the corridor east of Contractor's Road will require hand digging to the water table prior to drilling any locations in this area;
- MOT will be required to shut down part of Contractor's Road during injection work in and adjacent to the roadway.

The bioremediation of the source zone would be implemented as described in the previous section. Within the 10xNADC ring, bioremediation would include the injection of approximately 3,600 gallons (69 drums) of EOS PRO into 84 injection points. The solution will be injected over the 20 to 50 ft BLS treatment interval. The volume of EOS PRO will fill 0.2% of the 10xNADC ring pore volume. The percentage of the pore volume to be filled in the 10xNADC ring was reduced from the dosing used in the source zone, since the concentrations in this area are less than what are observed in the source zone. A total of 102 drums would be injected into 113 injection points in both the source zone and 10xNADC ring. For the six angled injections beneath the building, drilling will be performed east of the building to avoid drilling in the utility corridor.

For budgeting purposes, a second injection event is proposed may be performed 24 months following the initial event. The second injection event would involve the injection of 50% of the original EOS PRO volume (17 drums) to the same number of injection points in the source zone, and injection of 50% of the original EOS PRO amount into 50% of the original injection points in the 10xNADC ring (18 drums). A total of 35 drums of EOS PRO would be injected during the second event.

The solar-powered recirculation system will aid in distribution of amendment beneath the Heavy Equipment Office Building. Two 5-inch diameter extraction wells: one screened from 20 to 35 and one screened 35 to 50 ft BLS and two clusters with two 4-inch injection wells (a total of four wells) with the same screen intervals would be installed via hollow stem auger drilling. Solar-powered pumps would be installed within the extraction wells and piping would be installed in a trench exterior to and running along the southern portion of the building. Four passive vents would be installed, two on the east and two on the west side of the building, to avoid methane accumulation beneath the occupied building.

Up to 15 performance monitoring wells would be installed, using DPT drilling, to supplement the existing monitoring well network at the site. The performance monitoring network (15 monitoring wells) would be sampled quarterly for CVOCs, with eight of the samples additionally analyzed for biological and geochemical parameters (*Dhc*, *vcrA*, sulfate, sulfide, and TOC). Also, plan to sample the injection and extraction wells semi-annually with analysis of samples for VOCs to aid in evaluation of mass removal from under the building.

EZVI INJECTION - OVERVIEW

Emulsified zero-valent iron promotes reductive dechlorination in a similar fashion to standard (non-emulsified) ZVI, but has the added benefit of sequestration of contaminants in the oil phase resulting in additional contaminant reduction. Additionally, the emulsified oil helps promote a more suitable environment for biological reductive dechlorination via enhanced bioremediation. EZVI is composed of micro- or nano-scale ZVI suspended in a water phase, which is encompassed by a larger oil phase and surfactant. When introduced into groundwater, an emulsion is formed which is stabilized by the surfactant. Hydrophobic contaminants such as TCE are attracted to the oil phase and are subsequently dechlorinated by the ZVI in the emulsion. EZVI is well suited to treat DNAPL source zones, but is also effective at dechlorinating dissolved-phase groundwater plumes (though the cost for EZVI typically results in the technology focused in the source zone).

The EZVI solution utilized at the CRHE area would be 5% EZVI (sizes ranging from 0.1 to 5 microns) by weight. The EZVI would be delivered to the subsurface via high pressure DPT injection into injection points with 6 foot spacing center to center (assumes a ROI of 3 feet). The target injection volume would fill 10% of the aquifer pore space within the source zone. For costing purposes, it was assumed the injection would be performed by Vironex and Vironex will provide the necessary equipment (tanks, pumps, and hoses for dilution and mixing of electron donor) and the DPT rig for injection. Vironex estimates that six injection points can be completed per day. Dosing calculations for the EZVI are included in **Table A-2**.

EZVI injection is estimated to reach the CAO within 3 to 5 years based on the results observed at Hangar K.

EZVI Injection – Source Zone

Approximately 20,500 gallons of EZVI solution would be injected into 126 injection points in the source zone.

For costing purposes, a second injection event is included. The second injection event would involve the injection of the half of the volume (10,250 gallons) of EZVI solution (the same concentration solution injected into half of the original locations).

Up to 10 performance monitoring wells would be installed, using DPT drilling, to supplement the existing monitoring well network at the site. The performance monitoring network (10 monitoring wells) would be sampled quarterly for CVOCs.

Combination EZVI Injection – Source Zone/Bioremediation – 10xNADC Ring

The treatment of the 10xNADC zone would involve a combination of EZVI injection in the source zone and bioremediation of the 10xNADC ring. Bioremediation of the 10xNADC ring involves the following design constraints and implementation considerations:

- Vertical injection points cannot be readily installed beneath the Heavy Equipment Office Building (K6-1996H) because it is currently in use by personnel; therefore, the following recommendations are made:
    - angle-drilled injection points (six) beneath the building to aid in amendment injection (only six points are included because assuming will only drill from east side of building to avoid angle drilling through utility corridor and DPT rig has limited capability to reach under building);
    - emulsified oil dosing under the building would be based on the pore volume present under the building and that volume would be injected into the six injection locations;
    - use of existing (from GSA Seized Property IM) solar-powered recirculation system (two solar panels and two pumps) to aid in amendment distribution under the building; and
    - passive vents along the building's exterior walls to avoid accumulation of methane beneath the occupied building.
- Utilities in the corridor east of Contractor's Road will require hand digging to the water table prior to drilling any locations in this area;
- MOT will be required to shut down part of Contractor's Road during injection work in and adjacent to the roadway.

EZVI injection in the source zone would be implemented as described in the previous section. Within the 10xNADC ring, bioremediation would include the injection of approximately 3,600 gallons (69 drums) of amendment into 84 injection points (same as described in the 10XNADC bioremediation description). The solution will be injected over the 20 to 50 ft BLS treatment interval. This volume will achieve a target of filling 0.2% of the 10xNADC ring pore volume with EOS PRO. For the six angled injections beneath the building, drilling will be performed east of the building to avoid drilling in the utility corridor.

For costing purposes, a second injection event is proposed approximately 24 months following the initial event. The second injection event would involve the injection of the original EZVI volume (10,250 gallons) adjacent to the half of the original injection points in the source zone, and injection of 50% of the original EOS PRO amount into 50% of the original injection points in the 10xNADC ring (18 drums).

The solar-powered recirculation system will aid in distribution of amendment beneath the Heavy Equipment Office Building. Two 5-inch diameter extraction wells: one screened from 20 to 35 and one screened 35 to 50 ft BLS and two clusters with two 4-inch injection wells (a total of four wells) with the same screen intervals would be installed via hollow stem auger drilling. Solar-powered pumps would be installed within the extraction well screens and piping would be installed in a trench exterior to and running along the southern portion of the building. Four passive vents would be installed, two on the east and two on the west side of the building, to avoid methane accumulation beneath the occupied building.

Up to 15 performance monitoring wells would be installed, using DPT drilling, to supplement the existing monitoring well network at the site. The performance monitoring network (10 monitoring wells) would be sampled quarterly for CVOCs, with 8 of the samples additionally analyzed for biological and geochemical parameters (*Dhc*, *vcrA*, sulfate, sulfide, and TOC). Also, plan to sample the injection and extraction wells semi-annually with analysis of samples for VOCs to aid in evaluation of mass removal from under the building.

Table A-1. Emulsified Oil Calculations
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

Parameter	Value	Units	Method of Determination
Porosity	0.3		Engineering estimate
Hydraulic Conductivity	7.6	ft/day	From specific capacity test during RFI
Groundwater Flow Velocity	69	ft/yr	From Step 1 Eng Eval ADP
Area of 10xNADC Treatment Area including Source Zone (SZ)	19,170	ft^2	Based on GIS plume area (0.44 acres)
Area of SZ Treatment Area	3,050	ft^2	Concentration of TCE > 11,000 µg/L; Area based on GIS plume area (0.07 acres)
Area of 10xNADC Treatment Area not including SZ (10xNADC Ring)	16,120	ft^2	Area of 10xNADC plume, minus the Source Zone plume (0.37 acres)
Vertical Treatment Interval	30	ft	Based on groundwater sampling data and 20 ft to 50 ft treatment interval
SZ Treatment Area			
Volume of SZ Treatment Area	91,500	ft^3	Area of SZ x Vertical Treatment Interval
Pore Volume in SZ Treatment Area	27,450	ft^3	Volume x Porosity
Pore Volume in SZ Treatment Area	**205,340**	**gal**	**1 ft^3 = 7.480519 gal**
EOS Calculations - SZ			
Assuming filling 0.1% Pore Volume			
Volume of EOS (SZ)	342	gal	Assumes EOS is 60% oil
Drums of EOS (SZ)	7	drums	1 drum = 52.5 gallons of EOS
Assuming filling 1% Pore Volume			
Volume of EOS (SZ)	3,422	gal	Assumes EOS is 60% oil
Drums of EOS (SZ)	66	drums	1 drum = 52.5 gallons of EOS
Based on Vendor Calculation Sheet			
Drums of EOS (SZ)	12	drums	see attached calculation sheet
Estimated Number of Drums for Step 2 ADP (SZ) 1st Injection	**33**	**drums**	**0.5% of pore volume due to possibility of DNAPL**
Estimated Number of Drums for Step 2 ADP (SZ) 2nd Injection	**17**	**drums**	**0.25% of pore volume due to possibility of DNAPL**
Total Volume of EOS in 1st Injection	1,711	gal	Based on 52.5 gal per drum
Total Volume of EOS in 2nd Injection	893	gal	Based on 52.5 gal per drum
10xNADC Ring Treatment Area			
Volume of 10xNADC Ring Treatment Area	483,600	ft^3	Area of 10xNADC ring x Vertical Treatment Interval
Pore Volume in 10xNADC Ring Treatment Area	145,080	ft^3	Volume x Porosity
Pore Volume in 10xNADC Ring Treatment Area	**1,085,274**	**gal**	**1 ft^3 = 7.480519 gal**
EOS Calculations - 10xNADC Ring			
Assuming filling 0.1% Pore Volume			
Volume of EOS (10xNADC Ring)	1,809	gal	Assumes EOS is 60% oil
Drums of EOS (10xNADC Ring)	35	drums	1 drum = 52.5 gallons of EOS
Assuming filling 1% Pore Volume			
Volume of EOS (10xNADC Ring)	18,088	gal	Assumes EOS is 60% oil
Drums of EOS (10xNADC Ring)	345	drums	1 drum = 52.5 gallons of EOS
Based on Vendor Calculation Sheet			
Drums of EOS (10xNADC Ring)	49	drums	Difference of the attached calculation sheets
Estimated Number of Drums for Step 2 ADP (10xNADC Ring) 1st Injection	**69**	**drums**	**0.2% of pore volume**
Estimated Number of Drums for Step 2 ADP (10xNADC Ring) 2nd Injection	**18**	**drums**	**Half the treatment area; 0.1% of pore volume**
Total Volume of EOS in 1st Injection	3,618	gal	Based on 52.5 gal per drum
Total Volume of EOS in 2nd Injection	945	gal	Based on 52.5 gal per drum

Table A-2. EZVI Dosing Calculations
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

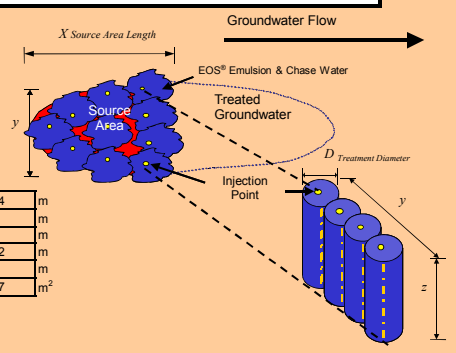
Parameter	Value	Units	Method of Determination
Porosity	0.3		Engineering estimate
Hydraulic Conductivity	7.6	ft/day	From specific capacity test during RFI
Groundwater Flow Velocity	69	ft/yr	From Step 1 ADP
Area of Source Zone Treatment Area	3,050	ft^2	Concentration of TCE > 11,000 µg/L; Area based on GIS plume area (0.07 acres)
Area of 10xNADC Treatment Area including Source Area	19,170	ft^2	Based on GIS plume area (0.44 acres)
Area of 10xNADC Treatment Area not including Source Area (10xNADC ring)	16,120	ft^2	10XNADC area - source area
Vertical Treatment Interval	30	ft	Based on groundwater sampling data (20 to 50 ft BLS)
EZVI Calculations - Source Area Only			
Volume of EZVI Treatment Area	91,500	ft^3	Area x Vertical Treatment Interval
Pore Volume in EZVI Treatment Area	27,450	ft^3	Volume x Porosity
Pore Volume in EZVI Treatment Area	205,340	gal	1 ft^3 = 7.480519 gal
Volume of EZVI in 1st Injection	**20,534**	**gal**	**Assumes EZVI solution (5% by weight) needs to fill 10% pore volume**
Volume of EZVI in 2nd Injection	**10,267**	**gal**	**Volume and dosing remains the same**
EOS Calculations - 10xNADC			
Volume of 10xNADC Treatment Area	483,600	ft^3	Area x Vertical Treatment Interval
Pore Volume in 10xNADC Treatment Area	145,080	ft^3	Volume x Porosity
Pore Volume in 10xNADC Treatment Area	1,085,274	gal	1 ft^3 = 7.480519 gal
Assuming filling 0.1% Pore Volume			
Volume of EOS (10xNADC)	1,809	gal	Assumes EOS is 60% oil
Drums of EOS (10xNADC)	35	drums	1 drum = 52.5 gallons of EOS
Assuming filling 1% Pore Volume			
Volume of EOS (10xNADC)	18,088	gal	Assumes EOS is 60% oil
Drums of EOS (10xNADC)	345	drums	1 drum = 52.5 gallons of EOS
Based on Vendor Calculation Sheet			
Drums of EOS (10xNADC)	49	drums	Difference of the attached calculation sheets
Estimated Number of Drums for Step 2 ADP (10xNADC) 1st Injection	**69**	**drums**	**0.2% of pore volume**
Estimated Number of Drums for Step 2 ADP (10xNADC) 2nd Injection	**18**	**drums**	**Half the treatment area; 0.1% of pore volume**
Total Volume of EOS in 1st Injection	3,618	gal	Based on 52.5 gal per drum
Total Volume of EOS in 2nd Injection	945	gal	Based on 52.5 gal per drum

EOS® SOURCE AREA & DNAPL DESIGN WORKSHEET

U.S. Version 2.1g, Rev. Date: December 7, 2008
www.EOSRemediation.com

Help

Site Name:	CRHE - Source Zone
Location:	KSC, FL
Project No.:	



Step 1: Select a Substrate from the EOS® Family of Bioremediation Products

Substrate Selected (pick from drop down list): EOS® 598B42 (Preferred for Chlorinateds)
For Product Literature Click Here

Step 2: EOS® Consumption During Contaminant Biodegradation / Biotransformation

Section A: Source Area Dimensions

Length of treatment area parallel to groundwater flow, "x"	195	ft	59.4	m
Width of treatment area perpendicular to groundwater flow, "y"	20	ft	6.1	m
Minimum depth to contamination	20	ft	6.1	m
Maximum depth of contamination	50	ft	15.2	m
Treatment thickness, "z"	30	ft	9.1	m
Treatment zone cross-sectional area, A = y * z	600	ft^2	55.7	m^2

Section B: Groundwater Flow Rate / Site Data

Soil Characteristics

Nominal Soil Type (pick from drop down list)	Sand			
Total Porosity (accept default or enter *n*)	0.40	(decimal)		
Effective Porosity (accept default or enter n_e)	0.30	(decimal)		
Soil bulk density; (1-n)*2.65 g/cc (accept calculated or enter dry bulk density)	1.60	g/cc	100	lbs / ft^3
Fraction of organic carbon: foc	0.0030	range: 0.0001 to 0.01		

Hydraulic Characteristics

Hydraulic Conductivity (accept default or enter *K*)	7.6	ft/day	2.7E-03	cm/sec
Hydraulic Gradient (accept default or enter *i*)	0.005	ft/ft		

Note: Since the hydraulic gradient ($i = dh/dx$) is negative, we ask you to enter $-i$ in the EOS® Design Tool so that you can enter a positive number for convenience.

Non-reactive Transport Velocity, $V_x = -(K \times i) / n_e$	0.13	ft/day	0.039	m/day
Groundwater flow rate through treatment zone, $Q = -KiA$	170.54	gallons/day	645.62	L/day

Section C: Calculated Contact Length

Contact time (τ) between oil and contaminants (accept default or enter τ)	60	typical values 60 to 180 days, see comment		
Calculated Contact Length (x) $= \tau * V_x$	7.6	ft	2.3	m

Treatment zone volume	117,000	ft^3	3,313	m^3
Treatment zone groundwater volume (volume * porosity)	345,688	gallons	1,308,663	L

Section D: Design Lifespan For One Application	3	year(s)	typical values 5 to 10 years
Estimated total groundwater volume treated over design life	532,434	gallons	2,015,621 L

Section E: Electron Acceptors

Dissolved Phase Electron Donor Demand

Inputs	Typical Value	GW Conc. (mg/L)	MW (g/mole)	e⁻ equiv./ mole	Stoichiometry *Contaminant/* H_2 *(wt/wt* H_2*)*	Hydrogen Demand *(g* H_2*)*
Dissolved Oxygen (DO)	0 to 8	0.5	32.0	4	7.94	126.9763158
Nitrate Nitrogen (NO_3^- - N)	1 to 10	1	62.0	5	12.30	163.8213163
Sulfate (SO_4^{2-})	10 to 500	500	96.1	8	11.91	84596.94462
Tetrachloroethene (PCE), C_2Cl_4			165.8	8	20.57	
Trichloroethene (TCE), C_2HCl_3		46.75	131.4	6	21.73	4337.111698
cis-1,2-dichloroethene (c-DCE), $C_2H_2Cl_2$		26.443	96.9	4	24.05	2216.547769
Vinyl Chloride (VC), C_2H_3Cl		3.672	62.5	2	31.00	238.7196134
Carbon tetrachloride, CCl_4			153.8	8	19.08	
Chloroform, $CHCl_3$			119.4	6	19.74	
sym-tetrachloroethane, $C_2H_2Cl_4$			167.8	8	20.82	
1,1,1-Trichloroethane (TCA), CH_3CCl_3			133.4	6	22.06	
1,1-Dichloroethane (DCA), CH_2CHCl_2			99.0	4	24.55	
Chloroethane, C_2H_5Cl			64.9	2	32.18	
Perchlorate, ClO_4^-			99.4	8	12.33	
Hexavalent Chromium, Cr[VI]			52.0	3	17.20	
User added						
User added						
User added						

Sorbed Phase Electron Donor Demand

The concentration of the sorbed contaminant can be estimated by: $C_{SOIL} = K_{OC} \times f_{oc} \times C_{WATER}$

Where: K_{oc} is partition coefficient with respect to organic carbon.
f_{oc} (fraction organic carbon) is the mass of organic matter in soil divided by the total mass of soil
C_{WATER} is the concentration of the contaminant in the groundwater

Default values for Koc taken from: US EPA, Superfund Section, APPENDIX K, Soil Organic Carbon (Koc) / Water (Kow) Partition Coefficients (Average Value Used)

Inputs Adjust *Koc* as necessary to provide site specific estimates or enter sediment concentration (C_{SOIL})	K_{oc} (L/kg)	C_{SOIL} (mg/Kg)	Mass (g)	Hydrogen Demand *(g* H_2*)*
Tetrachloroethene (PCE), C_2Cl_4	272			
Trichloroethene (TCE), C_2HCl_3	165.7			
cis-1,2-dichloroethene (c-DCE), $C_2H_2Cl_2$	45.6			
Vinyl Chloride (VC), C_2H_3Cl	26.3			
Carbon tetrachloride, CCl_4	158			
Chloroform, $CHCl_3$	53			
sym-tetrachloroethane, $C_2H_2Cl_4$	79			
1,1,1-Trichloroethane (TCA), CH_3CCl_3	139			
1,1-Dichloroethane (DCA), CH_2CHCl_2	54			
User added				
User added				
User added				

Section F: Additional Hydrogen Demand and Carbon Losses

Generation (Potential Amount Formed)	Typical Value	GW Conc. (mg/L)	MW (g/mole)	e⁻ equiv./ mole	Stoichiometry *Contaminant / H_2*	Hydrogen Demand *(g* H_2*)*	DOC Released *(moles)*
Estimated Amount of $Fe2^+$ Formed	10 to 100	50	55.8	1	55.41	1818.913839	
Estimated Amount of Manganese (Mn^{2+}) Formed			54.9	2	27.25		
Estimated Amount of CH_4 Formed	5 to 20	10	16.0	8	1.99	10130.75121	
Target Amount of DOC to Release	60 to 100	100	12.0				16781.46

Design Safety Factor: 2.0 typical values 1 to 3

Calculations assume:
1.) all reactions go to completion during passage through emulsified edible oil treated zone; and,
2.) perfect reaction stoichiometry.

EOS® Requirement Calculations Based on Hydrogen Demand and Carbon Losses

Stoichiometric Hydrogen Demand	456.5	pounds
DOC Released	1,916.2	pounds

EOS® Requirement Based on Hydrogen Demand and Carbon Loss
3,997 lbs

Step 3: EOS® Requirement Based on Attachment by Aquifer Material

Soil Characteristics

Effective treatment thickness, "z_e" (typically less than 40%)	0.40	
For Additional Information on Effective Thickness, Click Here		
Weight of sediment to be treated	4,684,101	lbs
Adsorptive Capacity of Soil (accept default or enter site specific value)	0.0010	lbs EOS® / lbs sediment

EOS® Attachment by Aquifer Material[1]
- Fine sand with some clay 0.001 to 0.002 lbs EOS® / lbs soil
- Sand with higher silt/clay content 0.002 to 0.004 lbs EOS® / lbs soil

[1]Default values provided based on laboratory studies completed by NCSU
For Additional Data, Click Here

EOS® Requirement Based on Oil Entrapment by Aquifer Material
4,684 lbs

Summary – How much EOS® do you need?

Suggested Quantity of EOS® for Your Project: 12 drums

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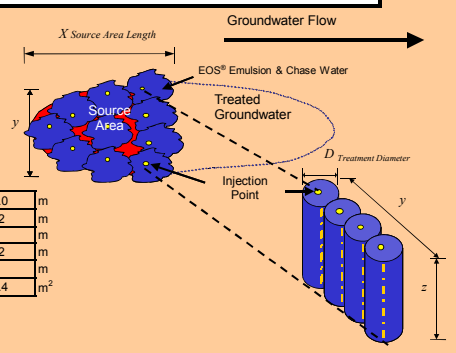
††EOS® is a registered trademark of EOS Remediation, LLC

EOS® SOURCE AREA & DNAPL DESIGN WORKSHEET

U.S. Version 2.1g, Rev. Date: December 7, 2008
www.EOSRemediation.com

Help

Site Name:	CRHE - 10xNADC Plume (includes source zone volume)
Location:	KSC, FL
Project No.:	



Step 1: Select a Substrate from the EOS® Family of Bioremediation Products

Substrate Selected (pick from drop down list): EOS® 598B42 (Preferred for Chlorinateds)
For Product Literature Click Here

Step 2: EOS® Consumption During Contaminant Biodegradation / Biotransformation

Section A: Source Area Dimensions

Length of treatment area parallel to groundwater flow, "x"	420	ft	128.0	m
Width of treatment area perpendicular to groundwater flow, "y"	50	ft	15.2	m
Minimum depth to contamination	20	ft	6.1	m
Maximum depth of contamination	50	ft	15.2	m
Treatment thickness, "z"	30	ft	9.1	m
Treatment zone cross-sectional area, A = y * z	1,500	ft^2	139.4	m^2

Section B: Groundwater Flow Rate / Site Data

Soil Characteristics

Nominal Soil Type (pick from drop down list)	Sand			
Total Porosity (accept default or enter *n*)	0.40	(decimal)		
Effective Porosity (accept default or enter n_e)	0.30	(decimal)		
Soil bulk density; (1-n)*2.65 g/cc (accept calculated or enter dry bulk density)	1.60	g/cc	100	lbs / ft^3
Fraction of organic carbon: foc	0.0030	range: 0.0001 to 0.01		

Hydraulic Characteristics

Hydraulic Conductivity (accept default or enter *K*)	7.6	ft/day	2.7E-03	cm/sec
Hydraulic Gradient (accept default or enter *i*)	0.005	ft/ft		

Note: Since the hydraulic gradient ($i = dh/dx$) is negative, we ask you to enter $-i$ in the EOS® Design Tool so that you can enter a positive number for convenience.

Non-reactive Transport Velocity, $V_x = -(K \times i) / n_e$	0.13	ft/day	0.039	m/day
Groundwater flow rate through treatment zone, $Q = -KiA$	426.36	gallons/day	1,614.06	L/day

Section C: Calculated Contact Length

Contact time (τ) between oil and contaminants (accept default or enter τ)	60	typical values 60 to 180 days, see comment		
Calculated Contact Length (x) $= \tau * V_x$	7.6	ft	2.3	m

Treatment zone volume	630,000	ft^3	17,840	m^3
Treatment zone groundwater volume (volume * porosity)	1,861,398	gallons	7,046,647	L

Section D: Design Lifespan For One Application

	3	year(s)	typical values 5 to 10 years	
Estimated total groundwater volume treated over design life	2,328,262	gallons	8,814,043	L

Section E: Electron Acceptors

Dissolved Phase Electron Donor Demand

Inputs	Typical Value	GW Conc. (mg/L)	MW (g/mole)	e⁻ equiv./ mole	Stoichiometry *Contaminant/ H_2 (wt/wt H_2)*	Hydrogen Demand ($g\ H_2$)
Dissolved Oxygen (DO)	0 to 8	0.5	32.0	4	7.94	555.2504592
Nitrate Nitrogen (NO_3^- - N)	1 to 10	1	62.0	5	12.30	716.3687222
Sulfate (SO_4^{2-})	10 to 500	500	96.1	8	11.91	369931.1328
Tetrachloroethene (PCE), C_2Cl_4			165.8	8	20.57	
Trichloroethene (TCE), C_2HCl_3		5.947	131.4	6	21.73	2412.587842
cis-1,2-dichloroethene (c-DCE), $C_2H_2Cl_2$		26.443	96.9	4	24.05	9692.667165
Vinyl Chloride (VC), C_2H_3Cl		3.672	62.5	2	31.00	1043.888966
Carbon tetrachloride, CCl_4			153.8	8	19.08	
Chloroform, $CHCl_3$			119.4	6	19.74	
sym-tetrachloroethane, $C_2H_2Cl_4$			167.8	8	20.82	
1,1,1-Trichloroethane (TCA), CH_3CCl_3			133.4	6	22.06	
1,1-Dichloroethane (DCA), CH_2CHCl_2			99.0	4	24.55	
Chloroethane, C_2H_5Cl			64.9	2	32.18	
Perchlorate, ClO_4^-			99.4	8	12.33	
Hexavalent Chromium, Cr[VI]			52.0	3	17.20	
User added						
User added						
User added						

Sorbed Phase Electron Donor Demand

The concentration of the sorbed contaminant can be estimated by: $C_{SOIL} = K_{OC} \times f_{oc} \times C_{WATER}$

Where: K_{oc} is partition coefficient with respect to organic carbon.
f_{oc} (fraction organic carbon) is the mass of organic matter in soil divided by the total mass of soil
C_{WATER} is the concentration of the contaminant in the groundwater

Default values for Koc taken from: US EPA, Superfund Section, APPENDIX K, Soil Organic Carbon (Koc) / Water (Kow) Partition Coefficients (Average Value Used)

Inputs Adjust *Koc* as necessary to provide site specific estimates or enter sediment concentration (C_{SOIL})	K_{oc} (L/kg)	C_{SOIL} (mg/Kg)	Mass (g)	Hydrogen Demand ($g\ H_2$)
Tetrachloroethene (PCE), C_2Cl_4	272			
Trichloroethene (TCE), C_2HCl_3	165.7			
cis-1,2-dichloroethene (c-DCE), $C_2H_2Cl_2$	45.6			
Vinyl Chloride (VC), C_2H_3Cl	26.3			
Carbon tetrachloride, CCl_4	158			
Chloroform, $CHCl_3$	53			
sym-tetrachloroethane, $C_2H_2Cl_4$	79			
1,1,1-Trichloroethane (TCA), CH_3CCl_3	139			
1,1-Dichloroethane (DCA), CH_2CHCl_2	54			
User added				
User added				
User added				

Section F: Additional Hydrogen Demand and Carbon Losses

Generation (Potential Amount Formed)	Typical Value	GW Conc. (mg/L)	MW (g/mole)	e⁻ equiv./ mole	Stoichiometry *Contaminant / H_2*	Hydrogen Demand ($g\ H_2$)	DOC Released *(moles)*
Estimated Amount of $Fe2^+$ Formed	10 to 100	50	55.8	1	55.41	7953.867129	
Estimated Amount of Manganese (Mn^{2+}) Formed			54.9	2	27.25		
Estimated Amount of CH_4 Formed	5 to 20	10	16.0	8	1.99	44300.42111	
Target Amount of DOC to Release	60 to 100	100	12.0				73383.09

Design Safety Factor: 2.0 typical values 1 to 3

Calculations assume:
1.) all reactions go to completion during passage through emulsified edible oil treated zone; and,
2.) perfect reaction stoichiometry.

EOS® Requirement Calculations Based on Hydrogen Demand and Carbon Losses

Stoichiometric Hydrogen Demand	1,923.4	pounds
DOC Released	8,379.2	pounds

EOS® Requirement Based on Hydrogen Demand and Carbon Loss
17,144 lbs

Step 3: EOS® Requirement Based on Attachment by Aquifer Material

Soil Characteristics

Effective treatment thickness, "z_e" (typically less than 40%)	0.40	
For Additional Information on Effective Thickness, Click Here		
Weight of sediment to be treated	25,222,082	lbs
Adsorptive Capacity of Soil (accept default or enter site specific value)	0.0010	lbs EOS® / lbs sediment

EOS® Attachment by Aquifer Material[1]
- Fine sand with some clay 0.001 to 0.002 lbs EOS® / lbs soil
- Sand with higher silt/clay content 0.002 to 0.004 lbs EOS® / lbs soil

[1]Default values provided based on laboratory studies completed by NCSU
For Additional Data, Click Here

EOS® Requirement Based on Oil Entrapment by Aquifer Material
25,222 lbs

Summary – How much EOS® do you need?

Suggested Quantity of EOS® for Your Project: 61 drums

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†Exclusive license agreement with Solutions-IES under U.S. Patent #RE40448, E.U. Patent # EP 1 315 675 and several other pending international patents.
††EOS® is a registered trademark of EOS Remediation, LLC

Table 1. Source Zone Air Sparge/Soil Vapor Extraction Costing
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

TECHNOLOGY: Air Sparging with SVE of Source Zone (TCE concentrations greater than 1% solubility)

DESCRIPTION: Installation of 13 sparge wells with a maximum depth of 50 ft BLS with 20-inch schumasoil screens. Installation of an SVE system including SVE chambers at approximately 20 foot spacing north and south of the central piping line. Installation of 10 performance monitoring wells with maximum depths of 40 ft BLS (5 monitoring wells) and 50 ft BLS (5 monitoring wells). Performance monitoring includes sampling of 10 monitoring wells for VOCs quarterly for three years. Assumes use of NASA's mobile air sparge trailer #2 (25 hp), cycling between two zones (one with six, and one with seven sparge wells).

Item	Description	Unit	No. of Units	Unit Cost	Total	Cost Reference
CAPITAL COSTS						
Performance Monitoring Well Installation - 10 monitoring wells						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 12/2013
Per Diem		DAY	3	$ 220	$ 660	EDS quote 12/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	3	$ 1,485	$ 4,455	EDS quote 12/2013
1" x 5 ft PVC prepacked screen		EA	20	$ 99	$ 1,980	EDS quote 12/2013
1" x 10 ft PVC Riser		EA	35	$ 18	$ 616	EDS quote 12/2013
caps, plugs & points		EA	10	$ 22	$ 220	EDS quote 12/2013
8-inch manhole with 2x2 ft concrete pad		EA	10	$ 110	$ 1,100	EDS quote 12/2013
DPT Decon	Decon pit setup/maintain	EA	1	$ 275	$ 275	EDS quote 12/2013
Drilling Oversight		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
Drums		EA	2	$ 58	$ 116	EDS quote 12/2013
permit	10 wells per permit	EA	1	$ 110	$ 110	EDS quote 12/2013
Subtotal					**$ 14,362**	
Air Sparge Well Installations - Installation of 13 sparge wells via hollow stem						
Hollow Stem Auger Mobilization		EA	1	$ 550	$ 550	EDS quote 3/2013
Hollow Stem Auger Per Diem	Assumes wells can be installed in 5 days	DAY	5	$ 330	$ 1,650	EDS quote 3/2013
Hollow Stem Well Install	2" air sparge well installed at 50' BLS	FT	650	$ 26	$ 17,160	EDS quote 3/2013
Hollow Stem Auger Decon		EA	13	$ 83	$ 1,073	EDS quote 3/2013
Schumasoil well screens (40 micron)	20 inch screens	EA	13	$ 152	$ 1,973	EDS quote 3/2013
Well Completions	Transition to SS 1 ft BLS, Flush 16" manholes	EA	13	$ 187	$ 2,431	EDS quote 9/2011
Well Development	Air sparge wells; 0.5 hrs per well	HR	6.5	$ 110	$ 715	EDS quote 3/2013
Drilling Oversight	Includes sparge well installation	DAY	5	$ 1,500	$ 7,500	Eng. Estimate
Bobcat/loader for IDW management		DAY	5	$ 275	$ 1,375	EDS quote 10/2012
Roll-off Transport	Liner/Spot/Transfer Costs	EA	1	$ 1,000	$ 1,000	Scaled from previous costs VPF
Roll-Off Box/Rental	Soil cuttings from HSA drilling	WEEK	3	$ 100	$ 300	Scaled from previous costs VPF
Roll-Off Cuttings Disposal (Non-Haz)	Soil (includes analyticals, characterization and non-haz disposal 15 tons)	EA	1	$ 1,200	$ 1,200	Scaled from previous costs VPF
Drums	Assumes approx. 3 gallons development IDW per well, drums 80% full	EA	1	$ 58	$ 58	EDS quote 12/2013
Subtotal					**$ 36,985**	
Air Sparge System						
Air sparge piping	sch 80 PVC pipe and fittings	LF	1200	$ 2.10	$ 2,520	Eng. Estimate
Air sparge hose	1" black general purpose air hose (200 psi)	LF	50	$ 3.00	$ 150	Eng. Estimate
Labor Piping Installation and Connections	Includes trenching, install, connections and backfilling - utility corridor must be hand dug	LS	1	$ 20,000	$ 20,000	Eng. Estimate
Manifold	purchase and installation of 36"x36" x12" NEMA box on concrete pad with piping, flow meters and pressure gauges	LS	1	$ 5,500	$ 5,500	Scaled from MLP
Sparge System Set-up and connections	Connecting to sparge trailer	LS	1	$ 5,000	$ 5,000	Eng. Estimate
Sparge Well Connections	Well head and valving	EA	13	$ 125	$ 1,625	Eng. Estimate
Electric line installation	Install electric line up to 30 ft (includes oversight and	EA	1	$ 5,000	$ 5,000	Scaled quote from PRM - July 2011
Subtotal					**$ 39,795**	
SVE System						
SVE System Construction and Setup	SVE system materials (Blower, knockout tank, etc.)	EA	1	$ 50,000	$ 50,000	Eng. Estimate
Carbon vessel	assumes 500 lb vessel - delivery, rental, and disposal of carbon as haz waste	LS	1	$ 5,000	$ 5,000	Eng. Estimate
SVE Piping, Connections	1" PVC sch 80 pipe and fittings	LF	950	$ 2.10	$ 1,995	Eng. Estimate
Gravel layer	1 ft thick gravel layer containing horizontal SVE collectors	CYD	2	$ 20	$ 41	Eng. Estimate
Plastic Cap	6 mil plastic sheeting to cover treatment area	SF	3,050	$ 0.10	$ 305	Eng. Estimate
SVE Installation Labor	Trenching, piping, backfilling, gravel and cap placement, etc.	EA	1	$ 15,000	$ 15,000	Eng. Estimate
Construction oversight		DAY	10	$ 1,500	$ 15,000	
Subtotal					**$ 87,341**	
ENGINEERING DESIGN AND START-UP COSTS						
Task 1 - System Design and Drawings (Step 3 Engineering Evaluation)		LS	1	$ 20,000	$ 20,000	Eng. Estimate
Task 2 - Permitting/Approvals, Regulatory Advocacy		HR	20	$ 120	$ 2,400	Eng. Estimate
Task 3 - Subcontracting/Contract Management		HR	40	$ 150	$ 6,000	Eng. Estimate
Task 4 - Installation Oversight/CQA/Health and Safety		DAY	2	$ 3,000	$ 6,000	Eng. Estimate
Task 5 - As-Built Drawings and Reporting	CCR and Step 4A Engineering Evaluation ADP/presentation	LS	1	$ 28,000	$ 28,000	Eng. Estimate
Task 6 - Startup Testing/Shakedown and Reporting		DAY	2	$ 2,000	$ 4,000	Eng. Estimate
Task 7 - Startup/Initial Performance Reporting	Step 4B Engineering Evaluation ADP/presentation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 74,400**	
				Total Capital Cost	**$ 252,900**	
ANNUAL OPERATION, MAINTENANCE AND MONITORING						
Air Sparge/SVE System Maintenance						
Operation and Monthly Maintenance	1 man crew	DAY	17	$ 1,500	$ 25,500	Eng. Estimate
Carbon vessel	cost for replacement and disposal as non-haz waste	LS	1	$ 4,000	$ 4,000	Eng. Estimate
Electricity	Assume 25 hp sparge system and 10 hp SVE (12 hr/day)	kWh	114316	$ 0.12	$ 13,718	Eng. Estimate
Annual parts and Labor allowance		LS	1	$ 3,000	$ 3,000	Eng. Estimate
Sampling 10 monitoring wells quarterly	Analysis for VOCs only	EA	40	$ 550	$ 22,000	Eng. Estimate
Reporting/Data Evaluation	Annual Report	EA	1	$ 20,000	$ 20,000	Eng. Estimate
ADP prep/presentation	Step 4C Engineering Evaluation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
				Annual Operation and Maintenance Cost for Air Sparge System	**$ 96,200**	
DPT Sampling						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 3/2013
Per Diem		DAY	3	$ 220	$ 660	EDS quote 3/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	3	$ 1,485	$ 4,455	EDS quote 3/2013
Mobile Lab Mobilization		EA	1	$ 385	$ 385	KB Labs Quote 2/2013
Mobile Lab Daily Rate		DAY	3	$ 1,485	$ 4,455	KB Labs Quote 2/2013
Mobile Lab Per Diem		DAY	3	$ 138	$ 413	KB Labs Quote 2/2013
DPT sampling oversight		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
DPT data evaluation		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
				DPT Sampling Cost	**$ 19,700**	
				Total Remediation Cost (Capital plus two years of operation)	**$ 465,000**	
				Total Remediation Cost (Capital plus three years of operation)	**$ 561,200**	

Table 2. 10xNADC Air Sparge/Soil Vapor Extraction Costing
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

TECHNOLOGY: Air Sparging with SVE of 10xNADC Plume (concentrations of TCE, cDCE, and VC greater than 10xNADC)

DESCRIPTION: Installation of 34 sparge wells to a maximum depth of 50 ft BLS with 20-inch schumasoil screens. Installation of an SVE system including SVE chambers at approximately 20 foot spacing north and south of the central piping line in the source zone and around the building. Installation of 15 performance monitoring wells with maximum depth of 40 ft BLS (7 monitoring wells) and 50 ft BLS (8 monitoring wells). Performance monitoring includes sampling of 15 monitoring wells for VOCs quarterly for three years. Assumes use of NASA's mobile air sparge trailer #2 (25 hp), cycling among three zones, two with 11 and one with 12 sparge wells).

Item	Description	Unit	No. of Units	Unit Cost	Total	Cost Reference
CAPITAL COSTS						
Monitoring Well Installation - 15 monitoring wells						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 12/2013
Per Diem		DAY	4	$ 220	$ 880	EDS quote 12/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	4	$ 1,485	$ 5,940	EDS quote 12/2013
1" x 5 ft PVC prepacked screen		EA	30	$ 99	$ 2,970	EDS quote 12/2013
1" x 10 ft PVC Riser		EA	53	$ 18	$ 933	EDS quote 12/2013
caps, plugs & points		EA	15	$ 22	$ 330	EDS quote 12/2013
8-inch manhole with 2x2 ft concrete pad		EA	15	$ 110	$ 1,650	EDS quote 12/2013
DPT Decon	Decon pit setup/maintain	EA	1	$ 275	$ 275	EDS quote 12/2013
Drilling Oversight		DAY	4	$ 1,500	$ 6,000	Eng. Estimate
Drums		EA	3	$ 58	$ 174	EDS quote 12/2013
permit	10 wells per permit	EA	2	$ 110	$ 220	EDS quote 12/2013
Subtotal					**$ 19,702**	
Air Sparge Well Installations - Installation of 29 sparge wells via hollow stem						
Hollow Stem Auger Mobilization		EA	1	$ 550	$ 550	EDS quote 3/2013
Hollow Stem Auger Per Diem	assumes wells can be installed in 11 days	DAY	11	$ 330	$ 3,630	EDS quote 3/2013
Hollow Stem Well Install	Drilling and 2" air sparge well installed at 50' BLS	FT	1450	$ 26	$ 38,280	EDS quote 3/2013
Hollow Stem Auger Decon		EA	29	$ 83	$ 2,393	EDS quote 3/2013
Schumasoil well screens (40 micron)	20 inch screens	EA	29	$ 152	$ 4,402	EDS quote 3/2013
Well Completions	Transition to SS 1 ft BLS, Flush 16" manholes	EA	13	$ 187	$ 2,431	EDS quote 9/2011
Well Development	Air sparge wells; 0.5 hrs per well	HR	14.5	$ 110	$ 1,595	EDS quote 3/2013
Drilling Oversight	Includes sparge well installation	DAY	11	$ 1,500	$ 16,500	Eng. Estimate
Subtotal					**$ 69,781**	
Air Sparge Well Installations - Installation of five sparge wells via sonic rig (well being installed under the building)						
Sonic Rig Mobilization		EA	1	$ 2,750	$ 2,750	Cascade quote 12/2013
Sonic Rig Per Diem	Assumes wells can be installed in 3 days	DAY	3	$ 380	$ 1,139	Cascade quote 12/2013
Sonic Rig Well Install	Drilling and 2" air sparge well installed at 50' BLS at an angle	FT	310	$ 44	$ 13,640	Cascade quote 12/2013
Sonic Rig Auger Decon	Per each day	EA	3	$ 204	$ 611	Cascade quote 12/2013
Schumasoil well screens (40 micron)	20 inch screens	EA	5	$ 83	$ 413	Cascade quote 12/2013
Well Completions	Transition to SS 1 ft BLS, complete with 18x18x18 DOT-H-20 vaults	EA	5	$ 440	$ 2,200	Cascade quote 12/2013
Well Development	Air sparge wells; 0.5 hrs per well	HR	2.5	$ 110	$ 275	EDS quote 3/2013
Drilling Oversight	Includes sparge well installation	DAY	3	$ 1,500	$ 4,500	Eng. Estimate
Subtotal					**$ 25,527**	
General Air Sparge Well Installation						
Bobcat/loader for IDW management		DAY	5	$ 275	$ 1,375	EDS quote 10/2012
Roll-off Transport	Liner/Spot/Transfer Costs	EA	2	$ 1,000	$ 2,000	Scaled from previous costs VPF
Roll-Off Box/Rental	Soil cuttings from HSA drilling	WEEK	5	$ 100	$ 500	Scaled from previous costs VPF
Roll-Off Cuttings Disposal (Non-Haz)	Soil (includes analyticals, characterization and non-haz disposal 30 tons)	EA	2	$ 1,200	$ 2,400	Scaled from previous costs VPF
Drums		EA	3	$ 58	$ 174	EDS quote 12/2013
Permits	10 wells per permit	EA	4	$ 110	$ 440	EDS Quote 12/2013
Subtotal					**$ 6,889**	
Air Sparge System						
Air sparge piping	SCH 80 PVC pipe and fittings	LF	2500	$ 2.10	$ 5,250	Eng. Estimate
Air sparge hose	1" black general purpose air hose (200 psi)	LF	150	$ 3.00	$ 450	Eng. Estimate
Manifold	purchase and installation of two 36"x36" x12" NEMA box on concrete pad with piping, flow meters and pressure gauges	LS	1	$ 15,000	$ 15,000	Scaled from MLP
Labor Piping Installation and Connections	Includes trenching, install, connections and backfilling	LS	1	$ 40,000	$ 40,000	Eng. Estimate
Sparge System Set-up and connections	Connecting to sparge trailer	LS	1	$ 10,000	$ 10,000	Eng. Estimate
Sparge Well Connections	Well head, valving, flow meters	EA	34	$ 125	$ 4,250	Eng. Estimate
Electric line installation	Install electric line up to 30 ft (includes oversight and supplies)	EA	1	$ 5,000	$ 5,000	Scaled quote from PRM - July 2011
Subtotal					**$ 79,950**	
SVE System						
SVE System Construction and Setup	SVE system materials (Blower, knockout tank, etc.)	EA	1	$ 50,000	$ 50,000	Engineering Estimate
Carbon vessel	assumes 1000 lb vessel - delivery, rental, and disposal of carbon as haz waste	LS	1	$ 8,000	$ 8,000	Eng. Estimate
SVE Piping, Connections	1" PVC sch 80 pipe and fittings	LF	1,200	$ 2.10	$ 2,520	Engineering Estimate
Gravel layer	1 ft thick gravel layer containing horizontal SVE collectors	CYD	3	$ 20	$ 59	Engineering Estimate
Plastic Cap	6 mil plastic sheeting to cover treatment area	SF	19,200	$ 0.10	$ 1,920	Engineering Estimate
SVE Installation Labor	Trenching, piping, backfilling, gravel and cap placement, etc.	EA	1	$ 25,000	$ 25,000	Engineering Estimate
Construction oversight		DAY	15	$ 1,500	$ 22,500	
					$ 109,999	
ENGINEERING DESIGN AND START-UP COSTS						
Task 1 - System Design and Drawings		LS	1	$ 30,000	$ 30,000	Eng. Estimate
Task 2 - Permitting/Approvals, Regulatory Advocacy		HR	40	$ 120	$ 4,800	Eng. Estimate
Task 3 - Subcontracting/Contract Management		HR	80	$ 150	$ 12,000	Eng. Estimate
Task 4 - Installation Oversight/CQA/Health and Safety		DAY	5	$ 3,000	$ 15,000	Eng. Estimate
Task 5 - As-Built Drawings and Reporting	CCR and Step 4A Engineering Evaluation ADP/presentation	LS	1	$ 33,000	$ 33,000	Eng. Estimate
Task 6 - Startup Testing/Shakedown		DAY	5	$ 2,000	$ 10,000	Eng. Estimate
Task 7 - Startup/Initial Performance Reporting	Step 4B Engineering Evaluation ADP/presentation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 112,800**	
				Total Capital Cost	**$ 424,600**	
ANNUAL OPERATION, MAINTENANCE AND MONITORING						
Air Sparge/SVE System Maintenance						
Operation and Monthly Maintenance	1 man crew	DAY	17	$ 1,500	$ 25,500	Eng. Estimate
Carbon vessel	cost for replacement and disposal as non-haz waste	LS	1	$ 6,000	$ 6,000	Eng. Estimate
Electricity	Assume 25 hp sparge system and 10 hp SVE (12 hr/day)	kWh	114316	$ 0.12	$ 13,718	Eng. Estimate
Annual parts and Labor allowance		LS	1	$ 5,000	$ 5,000	Eng. Estimate
Sampling 15 monitoring wells quarterly		EA	60	$ 550	$ 33,000	Eng. Estimate
Reporting/Data Evaluation	annual report	EA	1	$ 30,000	$ 30,000	Eng. Estimate
ADP prep/presentation	Step 4C Engineering Evaluation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
				Annual Operation and Maintenance Cost for Air Sparge System	**$ 121,200**	
DPT Sampling						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 3/2013
Per Diem		DAY	5	$ 220	$ 1,100	EDS quote 3/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	5	$ 1,485	$ 7,425	EDS quote 3/2013
Mobile Lab Mobilization		EA	1	$ 385	$ 385	KB Labs Quote 2/2013
Mobile Lab Daily Rate		DAY	5	$ 1,485	$ 7,425	KB Labs Quote 2/2013
Mobile Lab Per Diem		DAY	5	$ 138	$ 688	KB Labs Quote 2/2013
DPT sampling oversight		DAY	5	$ 1,500	$ 7,500	Eng. Estimate
DPT data evaluation		DAY	5	$ 1,500	$ 7,500	Eng. Estimate
				DPT Sampling Cost	**$ 32,400**	
				Total Remediation Cost (Capital plus two years of operation)	**$ 699,400**	
				Total Remediation Cost (Capital plus three years of operation)	**$ 820,600**	

Table 3. Source Zone Bioremediation Costing
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

TECHNOLOGY: Bioremediation of Source Zone (TCE concentrations greater than 1% solubility)

DESCRIPTION: DPT injection of emulsified oil (33 drums) at 29 injection points from 20 to 50 ft BLS. Injection of emulsified oil will occur in one injection event, with a second event included 24 months after the first, using 50% of the volume of EOS (17 drums) injected during the initial event. Installation of 10 performance monitoring wells with maximum depth of 40 ft BLS (5 monitoring wells) and 50 ft BLS (5 monitoring wells). Performance monitoring includes sampling of 10 monitoring wells for VOCs (including additional biological and geochemical analyses from 5 wells) quarterly for five years.

Item	Description	Unit	No. of Units	Unit Cost	Total	Cost Reference
CAPITAL COSTS						
Monitoring Well Installation - 10 monitoring wells						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 12/2013
Per Diem		DAY	3	$ 220	$ 660	EDS quote 12/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	3	$ 1,485	$ 4,455	EDS quote 12/2013
1" x 5 ft PVC prepacked screen		EA	20	$ 99	$ 1,980	EDS quote 12/2013
1" x 10 ft PVC Riser		EA	35	$ 18	$ 616	EDS quote 12/2013
caps, plugs & points		EA	10	$ 22	$ 220	EDS quote 12/2013
8-inch manhole with 2x2 ft concrete pad		EA	10	$ 110	$ 1,100	EDS quote 12/2013
DPT Decon	decon pit setup/maintain	EA	10	$ 275	$ 2,750	EDS quote 12/2013
Drilling Oversight		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
Drums		EA	2	$ 58	$ 116	EDS quote 12/2013
permit	10 wells per permit	EA	1	$ 110	$ 110	EDS quote 12/2013
Subtotal					**$ 16,837**	
DPT EOS Injection - assumes injection activities performed by Vironex						
Emulsified Oil	Purchase 33 drums of EOS (1 injection event; $1.48/lb; 420 lbs per drum)	DR	33	$ 624	$ 20,582	EOS quote 12/2013
Shipping		EA	1	$ 3,500	$ 3,500	EOS quote 12/2013
Driller Mobilization		EA	1	$ 5,203	$ 5,203	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 10 locations simultaneously (4 gpm); 29 points total; 5 points per day	DAY	6	$ 5,797	$ 34,782	Scaled from Vironex quote 12/2013
Per Diem Driller	Includes extra day for setup and breakdown	DAY	7	$ 495	$ 3,465	Scaled from Vironex quote 12/2013
Onsite Electron Donor Injection Oversight		DAY	7	$ 1,500	$ 10,500	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
Subtotal					**$ 83,147**	
ENGINEERING DESIGN AND START-UP COSTS						
Task 1 - System Design and Drawings		LS	1	$ 20,000	$ 20,000	Eng. Estimate
Task 2 - Permitting/Approvals, Regulatory Advocacy		HR	20	$ 120	$ 2,400	Eng. Estimate
Task 3 - Subcontracting/Contract Management		HR	40	$ 150	$ 6,000	Eng. Estimate
Task 4 - Installation Oversight/CQA/Health and Safety		DAY	2	$ 3,000	$ 6,000	Eng. Estimate
Task 5 - As-Built Drawings and Reporting	CCR and Step 4A Engineering Evaluation ADP/presentation	LS	1	$ 23,000	$ 23,000	Eng. Estimate
Task 6 - Startup Testing/Shakedown		DAY	1	$ 2,000	$ 2,000	Eng. Estimate
Task 7 - Startup/Initial Performance Reporting	Step 4B Engineering Evaluation ADP/presentation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 67,400**	
				Total Capital Cost	**$ 167,400**	
ANNUAL OPERATION AND MAINTENANCE						
Annual Operation and Maintenance Cost for Biostimulation						
Sampling 10 monitoring wells quarterly		EA	40	$ 550	$ 22,000	Eng. Estimate
Lab Analyses of select wells for sulfate, sulfide, TOC, *Dhc*, and *vcrA* (5 monitoring wells per event)		EA	20	$ 500	$ 10,000	Eng. Estimate
Reporting\Data Evaluation	annual reporting	EA	1	$ 20,000	$ 20,000	Eng. Estimate
ADP prep/presentation	Step 4C Engineering Evaluation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
				Annual Operation and Maintenance Cost for Biostimulation	**$ 60,000**	
DPT Sampling						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 3/2013
Per Diem		DAY	3	$ 220	$ 660	EDS quote 3/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	3	$ 1,485	$ 4,455	EDS quote 3/2013
Mobile Lab Mobilization		EA	1	$ 385	$ 385	KB Labs Quote 2/2013
Mobile Lab Daily Rate		DAY	3	$ 1,485	$ 4,455	KB Labs Quote 2/2013
Mobile Lab Per Diem		DAY	3	$ 138	$ 413	KB Labs Quote 2/2013
DPT sampling oversight		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
DPT data evaluation		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
				DPT Sampling Cost	**$ 19,700**	
ADDITIONAL INJECTION EVENT						
Costs for additional injection event, if required						
EOS	50% dosing in SZ with same number of injection locations as first injection event	DR	17	$ 624	$ 10,603	EOS quote 12/2013
Shipping		EA	1	$ 1,750	$ 1,750	EOS quote 12/2013
Driller Mobilization		EA	1	$ 5,203	$ 5,203	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 10 locations simultaneously (4 gpm); 29 points total	DAY	6	$ 5,797	$ 34,782	Scaled from Vironex quote 12/2013
Per Diem Driller	Includes extra day for setup and breakdown	DAY	7	$ 495	$ 3,465	Scaled from Vironex quote 12/2013
Onsite Electron Donor Injection Oversight		DAY	6	$ 1,500	$ 9,000	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
				Second Injection Event Cost	**$ 69,900**	
				Total Remediation Cost (Capital, Second Injection Event, three years of O&M&M)	**$ 437,000**	
				Total Remediation Cost (Capital, Second Injection Event, five years of O&M&M)	**$ 557,000**	

Table 4. 10xNADC Bioremediation Costing
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

TECHNOLOGY: Bioremediation of 10xNADC Plume (concentrations of TCE, cDCE, and VC greater than 10xNADC)

DESCRIPTION: DPT injection of EOS (102 drums) at 113 injection points from 20 to 50 ft BLS. A recirculation system with two injection well clusters and one extraction well cluster (screened from 20 to 35 and 35 to 50 ft BLS). Injection of EOS will occur in one injection event, with a second event included 24 months after the first, using 50% of the EOS volume in all original locations in the source zone (17 drums) and 50% of the EOS volume in 50% of the original locations in the 10xNADC ring (18 drums). Installation of 15 performance monitoring wells with maximum depth of 40 ft BLS (7 monitoring wells) and 50 ft BLS (8 monitoring wells). Performance monitoring includes sampling of 15 monitoring wells for VOCs (including additional biological and geochemical analyses from 8 wells) quarterly for five years.

Item	Description	Unit	No. of Units	Unit Cost	Total	Cost Reference
CAPITAL COSTS						
Monitoring Well Installation - 15 monitoring wells						
Driller Mobilization		EA	1	$ 330	$ 330	EDS quote 12/2013
Per Diem		DAY	4	$ 220	$ 880	EDS quote 12/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	4	$ 1,485	$ 5,940	EDS quote 12/2013
1" x 5 ft PVC prepacked screen		EA	30	$ 99	$ 2,970	EDS quote 12/2013
1" x 10 ft PVC Riser		EA	53	$ 18	$ 933	EDS quote 12/2013
caps, plugs & points		EA	15	$ 22	$ 330	EDS quote 12/2013
8-inch manhole with 2x2 ft concrete pad		EA	15	$ 110	$ 1,650	EDS quote 12/2013
DPT Decon	decon pit setup/maintain	EA	1	$ 275	$ 275	EDS quote 12/2013
Drilling Oversight		DAY	4	$ 1,500	$ 6,000	Eng. Estimate
Drums		EA	3	$ 58	$ 174	EDS quote 12/2013
permit	10 wells per permit	EA	2	$ 110	$ 220	EDS quote 12/2013
Subtotal					**$ 19,702**	
DPT EOS Injection						
EOS	Purchase 102 drums of EOS (1 injection event; $1.48/lb; 420 lbs per drum)	DR	102	$ 624	$ 63,617	EOS quote 12/2013
Shipping		EA	2	$ 7,000	$ 14,000	EOS quote 12/2013
Driller Mobilization		EA	1	$ 10,406	$ 10,406	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 10 locations simultaneously (4 gpm); 107 vertical points, 6 angled; 5 points per day	DAY	22	$ 5,797	$ 127,534	Scaled from Vironex quote 12/2013
Per Diem Driller	Includes extra day for setup and breakdown	DAY	23	$ 495	$ 11,385	Scaled from Vironex quote 12/2013
Onsite Electron Donor Injection Oversight		DAY	23	$ 1,500	$ 34,500	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
Subtotal					**$ 266,557**	
Recirculation System						
Mobilization	mob of hollow stem auger rig	LS	1	$ 660	$ 660	EDS quote 10/2012
Recirculation Injection wells (4-inch dia)	Hollow Stem Auger Installation w/ Decon; Two wells per cluster, two clusters	FT	340	$ 39	$ 13,090	EDS quote 10/2012
Extraction Wells (5-inch dia)	Hollow Stem Auger Installation w/ Decon; Two wells per cluster	FT	170	$ 44	$ 7,480	EDS quote 10/2012
Well Developments		HR	3	$ 110	$ 330	EDS quote 10/2012
Well Completions	36"x36"x4" concrete pads w/ 12" steel manholes	EA	6	$ 385	$ 2,310	EDS quote 10/2012
Per Diem		DAY	6	$ 330	$ 1,980	EDS quote 10/2012
Oversight of Drilling		DAY	2	$ 1,500	$ 3,000	Eng. Estimate
Bobcat/loader for IDW management		DAY	2	$ 275	$ 550	EDS Quote 10/2012
Roll-off Transport	Liner/Spot/Transfer Costs	EA	1	$ 1,000	$ 1,000	Scaled from previous costs VPF
Roll-Off Box/Rental	Soil cuttings from HSA drilling	WEEK	2	$ 100	$ 200	Scaled from previous costs VPF
Roll-Off Cuttings Disposal (Non-Haz)	Soil (includes analyticals, characterization and non-haz disposal 5 tons)	EA	1	$ 800	$ 800	Scaled from previous costs VPF
Installation of permanent injection piping	Includes oversight (installation below grade)	LS	1	$ 10,000	$ 10,000	Eng. Estimate
Recirculation Pipe Material	Assumes 1" PVC and associated fittings	LS	1	$ 2,000	$ 2,000	Eng. Estimate
Subtotal					**$ 43,400**	
Vapor Venting						
Vapor Venting Piping and fans (includes installation)	assumes 2 days for installation	LS	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 8,000**	
ENGINEERING DESIGN AND START-UP COSTS						
Task 1 - System Design and Drawings		LS	1	$ 25,000	$ 25,000	Eng. Estimate
Task 2 - Permitting/Approvals, Regulatory Advocacy		HR	40	$ 120	$ 4,800	Eng. Estimate
Task 3 - Subcontracting/Contract Management		HR	80	$ 150	$ 12,000	Eng. Estimate
Task 4 - Installation Oversight/CQA/Health and Safety		DAY	5	$ 3,000	$ 15,000	Eng. Estimate
Task 5 - As-Built Drawings and Reporting	CCR and Step 4A Engineering Evaluation ADP/presentation	LS	1	$ 28,000	$ 28,000	Eng. Estimate
Task 6 - Startup Testing/Shakedown		DAY	5	$ 2,000	$ 10,000	Eng. Estimate
Task 7 - Startup/Initial Performance Reporting	Step 4B Engineering Evaluation ADP/presentation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 102,800**	
				Total Capital Cost	**$ 440,500**	
ANNUAL OPERATION AND MAINTENANCE						
Annual Operation and Maintenance Cost for Biostimulation and Recirculation						
Sampling 15 monitoring wells quarterly and two extraction and four injection wells		EA	70	$ 550	$ 38,500	Eng. Estimate
Lab Analyses of select wells for sulfate, sulfide, TOC, *Dhc*, and *vcrA* (8 monitoring wells per event)		EA	30	$ 500	$ 15,000	Eng. Estimate
Reporting\Data Evaluation	annual reporting	EA	1	$ 30,000	$ 30,000	Eng. Estimate
ADP prep/presentation	Step 4C Engineering Evaluation	EA	2	$ 8,000	$ 16,000	Eng. Estimate
				Annual Operation and Maintenance Cost for Biostimulation	**$ 99,500**	
DPT Sampling						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 3/2013
Per Diem		DAY	5	$ 220	$ 1,100	EDS quote 3/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	5	$ 1,485	$ 7,425	EDS quote 3/2013
Mobile Lab Mobilization		EA	1	$ 385	$ 385	KB Labs Quote 2/2013
Mobile Lab Daily Rate		DAY	5	$ 1,485	$ 7,425	KB Labs Quote 2/2013
Mobile Lab Per Diem		DAY	5	$ 138	$ 688	KB Labs Quote 2/2013
DPT sampling oversight		DAY	5	$ 1,500	$ 7,500	Eng. Estimate
DPT data evaluation		DAY	5	$ 1,500	$ 7,500	Eng. Estimate
				DPT Sampling Cost	**$ 32,400**	
ADDITIONAL INJECTION EVENT						
Costs for additional injection event, if required						
EOS	50% dosing in SZ (17 drums), 50% in 50% of 10xNADC (18 drums)	DR	35	$ 624	$ 21,830	EOS quote 12/2013
Shipping		EA	1	$ 3,500	$ 3,500	EOS quote 12/2013
Driller Mobilization		EA	1	$ 10,406	$ 10,406	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 10 locations simultaneously (4 gpm); 68 vertical points, 6 angled	DAY	15	$ 5,797	$ 86,955	Scaled from Vironex quote 12/2013
Per Diem Driller	Includes extra day for setup and breakdown	DAY	16	$ 495	$ 7,920	Scaled from Vironex quote 12/2013
Onsite Electron Donor Injection Oversight		DAY	15	$ 1,500	$ 22,500	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
				Second Injection Event Cost	**$ 158,200**	
				Total Remediation Cost (Capital, Second Injection Event, three years of O&M&M)	**$ 929,600**	
				Total Remediation Cost (Capital, Second Injection Event, five years of O&M&M)	**$ 1,128,600**	

Table 5. Source Zone EZVI Injection Costing
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

TECHNOLOGY: EZVI Injection within Source Zone (TCE concentrations greater than 1% solubility)

DESCRIPTION: Injection of approximately 20,500 gallons of EZVI using direct-push drilling injection methods at 126 locations from 20 to 50 ft BLS. Injection of EZVI will occur in an initial injection event, followed by a second event 24 months later. Installation of 10 performance monitoring wells with maximum depth of 40 ft BLS (5 monitoring wells) and 50 ft BLS (5 monitoring wells). Performance monitoring includes sampling of 10 monitoring wells for VOCs quarterly for five years.

Item	Description	Unit	No. of Units	Unit Cost	Total	Cost Reference
CAPITAL COSTS						
Monitoring Well Installation - 10 monitoring wells						
Driller Mobilization		EA	1	$ 330	$ 330	EDS quote 12/2013
Per Diem		DAY	3	$ 220	$ 660	EDS quote 12/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	3	$ 1,485	$ 4,455	EDS quote 12/2013
1" x 5 ft PVC prepacked screen		EA	20	$ 99	$ 1,980	EDS quote 12/2013
1" x 10 ft PVC Riser		EA	35	$ 18	$ 616	EDS quote 12/2013
caps, plugs & points		EA	10	$ 22	$ 220	EDS quote 12/2013
8-inch manhole with 2x2 ft concrete pad		EA	10	$ 110	$ 1,100	EDS quote 12/2013
DPT Decon	decon pit setup/maintain	EA	10	$ 275	$ 2,750	EDS quote 12/2013
Drilling Oversight		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
Drums		EA	2	$ 58	$ 116	EDS quote 12/2013
permit	10 wells per permit	EA	1	$ 110	$ 110	EDS quote 12/2013
Subtotal					**$ 16,837**	
Injection Event- EZVI						
EZVI Material	5% ZVI by weight formulation; Does not include NASA royalty; Volume pricing for this quantity only (20,000 gal)	gal	20,534	$ 23	$ 466,146	Scaled from RemQuest Quote 12/2013
On-site EZVI Storage		day	21	$ 116	$ 2,436	RemQuest Quote 12/2013
Tanker dead-head charges		EA	2	$ 2,900	$ 5,800	RemQuest Quote 12/2013
Driller Mobilization		EA	1	$ 7,805	$ 7,804.50	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 6 points per day; 126 points	DAY	21	$ 5,797	$ 121,737	Vironex quote 12/2013
Per Diem Driller		DAY	22	$ 495	$ 10,890	Vironex quote 12/2013
Onsite EZVI Injection Oversight		DAY	22	$ 1,500	$ 33,000	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
Subtotal					**$ 652,900**	
ENGINEERING DESIGN AND START-UP COSTS						
Task 1 - System Design and Drawings		LS	1	$ 15,000	$ 15,000	Eng. Estimate
Task 2 - Permitting/Approvals, Regulatory Advocacy		HR	20	$ 120	$ 2,400	Eng. Estimate
Task 3 - Subcontracting/Contract Management		HR	40	$ 150	$ 6,000	Eng. Estimate
Task 4 - Installation Oversight/CQA/Health and Safety		DAY	2	$ 3,000	$ 6,000	Eng. Estimate
Task 5 - As-Built Drawings and Reporting	CCR and Step 4A Engineering Evaluation ADP/presentation	LS	1	$ 23,000	$ 23,000	Eng. Estimate
Task 6 - Startup Testing/Shakedown		DAY	2	$ 2,000	$ 4,000	Eng. Estimate
Task 7 - Startup/Initial Performance Reporting	Step 4B Engineering Evaluation ADP/presentation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 64,400**	
				Total Capital Cost	**$ 734,100**	
ANNUAL OPERATION AND MAINTENANCE						
Annual Operation and Maintenance Cost for EZVI						
Sampling 10 monitoring wells quarterly		EA	40	$ 550	$ 22,000	Eng. Estimate
Reporting\Data Evaluation	Annual Reporting	EA	1	$ 20,000	$ 20,000	Eng. Estimate
ADP prep/presentation	Step 4C Engineering Evaluation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
				Annual Operation and Maintenance Cost for EZVI	**$ 50,000**	
DPT Sampling						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 3/2013
Per Diem		DAY	3	$ 220	$ 660	EDS quote 3/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	3	$ 1,485	$ 4,455	EDS quote 3/2013
Mobile Lab Mobilization		EA	1	$ 385	$ 385	KB Labs Quote 2/2013
Mobile Lab Daily Rate		DAY	3	$ 1,485	$ 4,455	KB Labs Quote 2/2013
Mobile Lab Per Diem		DAY	3	$ 138	$ 413	KB Labs Quote 2/2013
DPT sampling oversight		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
DPT data evaluation		DAY	3	$ 1,500	$ 4,500	Eng. Estimate
				DPT Sampling Cost	**$ 19,700**	
ADDITIONAL INJECTION EVENT						
Costs for additional injection event, if necessary						
EZVI Material	5% ZVI by weight formulation; Does not include NASA royalty or 6% FL sales taxes; Volume pricing for this quantity only (20,000 gal)	gal	10,267	$ 23	$ 233,073	Scaled from RemQuest Quote 12/2013
On-site EZVI Storage		day	11	$ 116	$ 1,218	RemQuest Quote 12/2013
Tanker dead-head charges		EA	2	$ 2,900	$ 5,800	RemQuest Quote 12/2013
Driller Mobilization		EA	1	$ 7,805	$ 7,805	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 6 points per day; 126 points	DAY	11	$ 5,797	$ 60,869	Vironex quote 12/2013
Per Diem Driller		DAY	11	$ 495	$ 5,445	Vironex quote 12/2013
Onsite EZVI Injection Oversight		DAY	11	$ 1,500	$ 16,500	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
				Second Injection Event Cost	**$ 335,800**	
				Total Remediation Cost (Capital, Second Injection, three years of O&M&M)	**$ 1,239,600**	
				Total Remediation Cost (Capital, Second Injection, five years of O&M&M)	**$ 1,339,600**	

Table 6. 10xNADC EZVI Injection Costing
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

TECHNOLOGY: EZVI Injection within Source Zone (TCE concentrations greater than 1% solubility) and Bioremediation of 10xNADC ring (area with concentrations of TCE, cDCE, and VC greater than 10xNADC, excluding the source zone area)

DESCRIPTION: Injection of EZVI (approximately 20,500 gallons; 126 locations) in the source zone and EOS (approximately 69 drums; 84 locations) in the 10xNADC ring using direct-push methods from 20 to 50 ft BLS. Injection of EZVI and EOS will occur in two injection events, with a second event included 24 months after the initial event. The second event will use the same injection scheme in the source zone and 50% of the original EOS volume into 50% of the initial locations in the 10xNADC ring. Installation of 15 performance monitoring wells with maximum depth of 40 ft BLS (7 monitoring wells) and 50 ft BLS (8 monitoring wells). Performance monitoring includes sampling of 15 monitoring wells for VOCS (including additional biological and geochemical analyses from 3 wells) quarterly for five years.

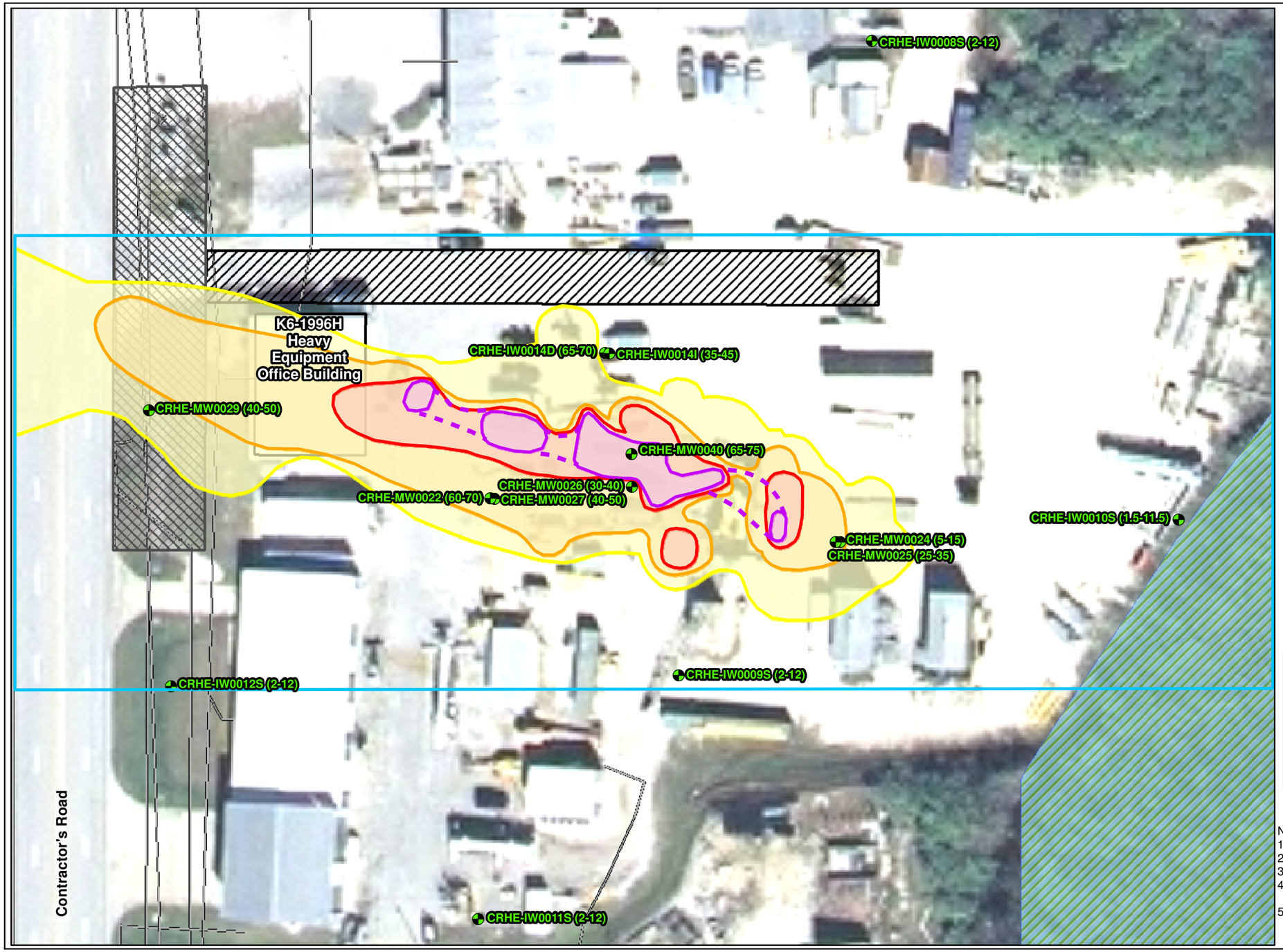
Item	Description	Unit	No. of Units	Unit Cost	Total	Cost Reference
CAPITAL COSTS						
Monitoring Well Installation - 15 monitoring wells						
Driller Mobilization		EA	1	$ 330	$ 330	EDS quote 12/2013
Per Diem		DAY	4	$ 220	$ 880	EDS quote 12/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	4	$ 1,485	$ 5,940	EDS quote 12/2013
1" x 5 ft PVC prepacked screen		EA	30	$ 99	$ 2,970	EDS quote 12/2013
1" x 10 ft PVC Riser		EA	53	$ 18	$ 933	EDS quote 12/2013
caps, plugs & points		EA	15	$ 22	$ 330	EDS quote 12/2013
8-inch manhole with 2x2 ft concrete pad		EA	15	$ 110	$ 1,650	EDS quote 12/2013
DPT Decon	decon pit setup/maintain	EA	1	$ 275	$ 275	EDS quote 12/2013
Drilling Oversight		DAY	4	$ 1,500	$ 6,000	Eng. Estimate
Drums		EA	3	$ 58	$ 174	EDS quote 12/2013
permit	10 wells per permit	EA	2	$ 110	$ 220	EDS quote 12/2013
Subtotal					**$ 19,702**	
Injection Event- EZVI						
EZVI Material	5% ZVI by weight formulation; Does not include NASA royalty; includes 6% FL sales tax; Volume pricing for this quantity only (20,000 gal)	gal	20,534	$ 23	$ 466,146	Scaled from RemQuest Quote 12/2013
On-site EZVI Storage		day	21	$ 116	$ 2,436	RemQuest Quote 12/2013
Tanker dead-head charges		EA	2	$ 2,900	$ 5,800	RemQuest Quote 12/2013
Driller Mobilization		EA	1	$ 7,805	$ 7,805	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 6 points per day; 126 points	DAY	21	$ 5,797	$ 121,737	Vironex quote 12/2013
Per Diem Driller		DAY	22	$ 495	$ 10,890	Vironex quote 12/2013
Onsite EZVI Injection Oversight		DAY	22	$ 1,500	$ 33,000	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
Subtotal					**$ 652,900**	
Injection Event - EOS						
EOS	Purchase 69 drums of EOS (1 injection event; $1.48/lb; 420 lbs per drum)	DR	69	$ 624	$ 43,035	EOS quote 12/2013
Shipping		EA	1	$ 5,000	$ 5,000	EOS quote 12/2013
Driller Mobilization		EA	1	$ 10,406	$ 10,406	Vironex quote 12/2013
Setup and Breakdown Rate		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate	Assumes injection at 10 locations simultaneously (4 gpm); 78 vertical	DAY	16	$ 5,797	$ 92,752	Scaled from Vironex quote 12/2013
Per Diem Driller	Includes extra day for setup and breakdown	DAY	17	$ 495	$ 8,415	Scaled from Vironex quote 12/2013
Onsite Electron Donor Injection Oversight		DAY	17	$ 1,500	$ 25,500	Eng. Estimate
HASP/Spill Plan/Injection Reporting		EA	1	$ 2,750	$ 2,750	Vironex quote 12/2013
Subtotal					**$ 190,223**	
Recirculation System						
Mobilization		LS	1	$ 660	$ 660	EDS quote 10/2012
Recirculation Injection wells (4-inch dia)	Hollow Stem Auger Installation w/ Decon; Two wells per cluster, two clusters	FT	340	$ 39	$ 13,090	EDS quote 10/2012
Extraction Wells (5-inch dia)	Hollow Stem Auger Installation w/ Decon; Two wells per cluster	FT	170	$ 44	$ 7,480	EDS quote 10/2012
Well Developments		HR	3	$ 110	$ 330	EDS quote 10/2012
Well Completions	36"x36"x4" concrete pads w/ 12" steel manholes	EA	6	$ 385	$ 2,310	EDS quote 10/2012
Per Diem		DAY	2	$ 330	$ 660	EDS quote 10/2012
Oversight of Drilling		DAY	2	$ 1,500	$ 3,000	Eng. Estimate
Bobcat/loader for IDW management		DAY	2	$ 275	$ 550	EDS Quote 10/2012
Roll-off Transport	Liner/Spot/Transfer Costs	EA	1	$ 1,000	$ 1,000	Scaled from previous costs VPF
Roll-Off Box/Rental	Soil cuttings from HSA drilling	WEEK	2	$ 100	$ 200	Scaled from previous costs VPF
Roll-Off Cuttings Disposal (Non-Haz)	Soil (includes analyticals, characterization and non-haz disposal 5 tons)	EA	1	$ 800	$ 800	Scaled from previous costs VPF
Installation of permanent injection piping	Includes oversight (installation above grade)	LS	1	$ 10,000	$ 10,000	Eng. Estimate
Recirculation Pipe Material	Assumes 1" PVC and associated fittings	LS	1	$ 2,000	$ 2,000	Eng. Estimate
Subtotal					**$ 42,080**	
Vapor Venting						
Vapor Venting Piping and fans (includes installation)	assumes 2 days for installation	LS	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 8,000**	
ENGINEERING DESIGN AND START-UP COSTS						
Task 1 - System Design and Drawings		LS	1	$ 25,000	$ 25,000	
Task 2 - Permitting/Approvals, Regulatory Advocacy		HR	40	$ 120	$ 4,800	Eng. Estimate
Task 3 - Subcontracting/Contract Management		HR	80	$ 150	$ 12,000	Eng. Estimate
Task 4 - Installation Oversight/CQA/Health and Safety		DAY	5	$ 3,000	$ 15,000	Eng. Estimate
Task 5 - As-Built Drawings and Reporting	CCR and Step 4A Engineering Evaluation ADP/presentation	LS	1	$ 28,000	$ 28,000	Eng. Estimate
Task 6 - Startup Testing/Shakedown		DAY	2	$ 2,000	$ 4,000	Eng. Estimate
Task 7 - Startup/Initial Performance Reporting	Step 4B Engineering Evaluation ADP/presentation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
Subtotal					**$ 96,800**	
				Total Capital Cost	**$ 1,009,700**	
ANNUAL OPERATION AND MAINTENANCE						
Annual Operation and Maintenance Cost for EZVI with bioremediation						
Sampling 15 monitoring wells quarterly and two extraction and four injection wells		EA	70	$ 550	$ 38,500	Eng. Estimate
Lab Analyses of select wells for sulfate, sulfide, TOC, *Dhc*, and *vcrA* (3 monitoring wells per event)		EA	12	$ 500	$ 6,000	Eng. Estimate
Reporting\Data Evaluation	Annual Reporting	EA	1	$ 30,000	$ 30,000	Eng. Estimate
ADP prep/presentation	Step 4C Engineering Evaluation	EA	1	$ 8,000	$ 8,000	Eng. Estimate
				Annual Operation and Maintenance Cost for EZVI	**$ 82,500**	
DPT Sampling						
DPT Mobilization		EA	1	$ 330	$ 330	EDS quote 3/2013
Per Diem		DAY	5	$ 220	$ 1,100	EDS quote 3/2013
Direct Push, Daily Rate	Assumes installation of 4 wells per day	DAY	5	$ 1,485	$ 7,425	EDS quote 3/2013
Mobile Lab Mobilization		EA	1	$ 385	$ 385	KB Labs Quote 2/2013
Mobile Lab Daily Rate		DAY	5	$ 1,485	$ 7,425	KB Labs Quote 2/2013
Mobile Lab Per Diem		DAY	5	$ 138	$ 688	KB Labs Quote 2/2013
DPT sampling oversight		DAY	5	$ 1,500	$ 7,500	Eng. Estimate
DPT data evaluation		DAY	5	$ 1,500	$ 7,500	Eng. Estimate
				DPT Sampling Cost	**$ 32,400**	
ADDITIONAL INJECTION EVENT						
Costs for additional injection event, if required						
EOS	50% dosing in 50% of 10xNADC	DR	18	$ 624	$ 11,227	EOS quote 12/2013
Shipping		EA	1	$ 2,000	$ 2,000	EOS quote 12/2013
EZVI Material	5% ZVI by weight formulation; Does not include NASA royalty; includes 6% FL sales taxes; Volume pricing for this quantity only (20,000 gal)	gal	10,267	$ 23	$ 233,073	Scaled from RemQuest Quote 12/2013
On-site EZVI Storage		day	11	$ 116	$ 1,218	RemQuest Quote 12/2013
Tanker dead-head charges		EA	2	$ 2,750	$ 5,500	RemQuest Quote 12/2013
Driller Mobilization	One for each solution	EA	1	$ 7,805	$ 7,805	Vironex quote 12/2013
Setup and Breakdown Rate	One for each solution	EA	2	$ 2,365	$ 4,730	Vironex quote 12/2013
DPT Daily Rate - EZVI	Assumes injection at 6 points per day; 126 points	DAY	11	$ 5,797	$ 60,869	Vironex quote 12/2013
Per Diem Driller - EZVI		DAY	11	$ 495	$ 5,445	Vironex quote 12/2013
Onsite EZVI Injection Oversight		DAY	11	$ 1,500	$ 16,500	Eng. Estimate
HASP/Spill Plan/Injection Reporting	One for each EZVI and EOS	EA	2	$ 2,750	$ 5,500	Vironex quote 12/2013
Setup and Breakdown Rate - EOS		EA	1	$ 2,365	$ 2,365	Vironex quote 12/2013
DPT Daily Rate - EOS	Assumes injection at 10 locations simultaneously (4 gpm); 39 vertical points, 6 angled	DAY	9	$ 5,797	$ 52,173	Scaled from Vironex quote 12/2013
Per Diem Driller - EOS	Includes extra day for setup and breakdown	DAY	10	$ 495	$ 4,950	Scaled from Vironex quote 12/2013
Onsite Electron Donor Injection Oversight		DAY	10	$ 1,500	$ 15,000	Eng. Estimate
				Year Two Injection Event Cost	**$ 428,400**	
				Total Remediation Cost (Capital, Second Injection, three years of O&M&M)	**$ 1,718,000**	
				Total Remediation Cost (Capital, Second Injection, five years of O&M&M)	**$ 1,883,000**	

Table 7. Cost Comparison
Step Two Engineering Evaluation
Contractor's Road Heavy Equipment Area

Alternative		Capital Cost	Annual Cost Year One (Including Sampling)	Annual Costs Year Two (Including Sampling)	Annual Costs Year Three (Including Sampling)	Annual Costs Year Four (Including Sampling)	Annual Costs Year Five (Including Sampling)	Estimated Timeframe to NADC	Total "Pay as You Go" Cost (Active Remediation)	Present Value Cost (Active Remediation)	Estimated CVOC Mass Removed	Estimated Cost per Pound of CVOC Mass Removed
Units		$	$	$	$	$	$	Years	$	$	lbs	$/lbs
1A	SZ AS/SVE	$252,900	$96,200	$115,900	N/A	N/A	N/A	2	$470,000	$450,000	58	$8,100
		$252,900	$96,200	$115,900	$96,200	N/A	N/A	3	$560,000	$550,000		$9,700
2A	SZ Bioremediation	$167,400	$60,000	$149,600	$60,000	N/A	N/A	3	$440,000	$420,000	58	$7,600
		$167,400	$60,000	$149,600	$60,000	$60,000	$60,000	5	$560,000	$540,000		$9,700
3A	SZ EZVI	$734,100	$50,000	$405,500	$50,000	N/A	N/A	3	$1,240,000	$1,220,000	58	$21,400
		$734,100	$50,000	$405,500	$50,000	$50,000	$50,000	5	$1,340,000	$1,310,000		$23,100
1B	10xNADC AS/SVE	$424,600	$121,200	$153,600	N/A	N/A	N/A	2	$700,000	$690,000	152	$4,600
		$424,600	$121,200	$153,600	$121,200	N/A	N/A	3	$820,000	$800,000		$5,400
2B	10xNADC Bioremediation	$440,500	$99,500	$290,100	$99,500	N/A	N/A	3	$930,000	$910,000	152	$6,100
		$440,500	$99,500	$290,100	$99,500	$99,500	$99,500	5	$1,130,000	$1,100,000		$7,400
3B	SZ EZVI 10xNADC Bioremediation	$1,009,700	$82,500	$543,300	$82,500	N/A	N/A	3	$1,720,000	$1,680,000	152	$11,300
		$1,009,700	$82,500	$543,300	$82,500	$82,500	$82,500	5	$1,880,000	$1,840,000		$12,400

Notes:

1. Alternatives 2A, 3A, 2B, and 3B assume a second injection event performed 24 months after the initial event.
2. Bioremediation indicates biostimulation with emulsified oil.
3. Alternatives 2B and 3B include recirculation beneath the building and passive venting around the building.
4. SZ indicates source zone.
5. NADC indicates natural attenuation default concentration.
6. AS/SVE indicates air sparging and soil vapor extraction.
7. EZVI indicates emulsified zero valent iron.
8. "Pay as You Go" costs do not consider inflation during the remediation period.
9. Net rate of return: 5%
10. All alternatives include DPT sampling costs in Year 2.



N

50 25 0 50

Feet

Legend

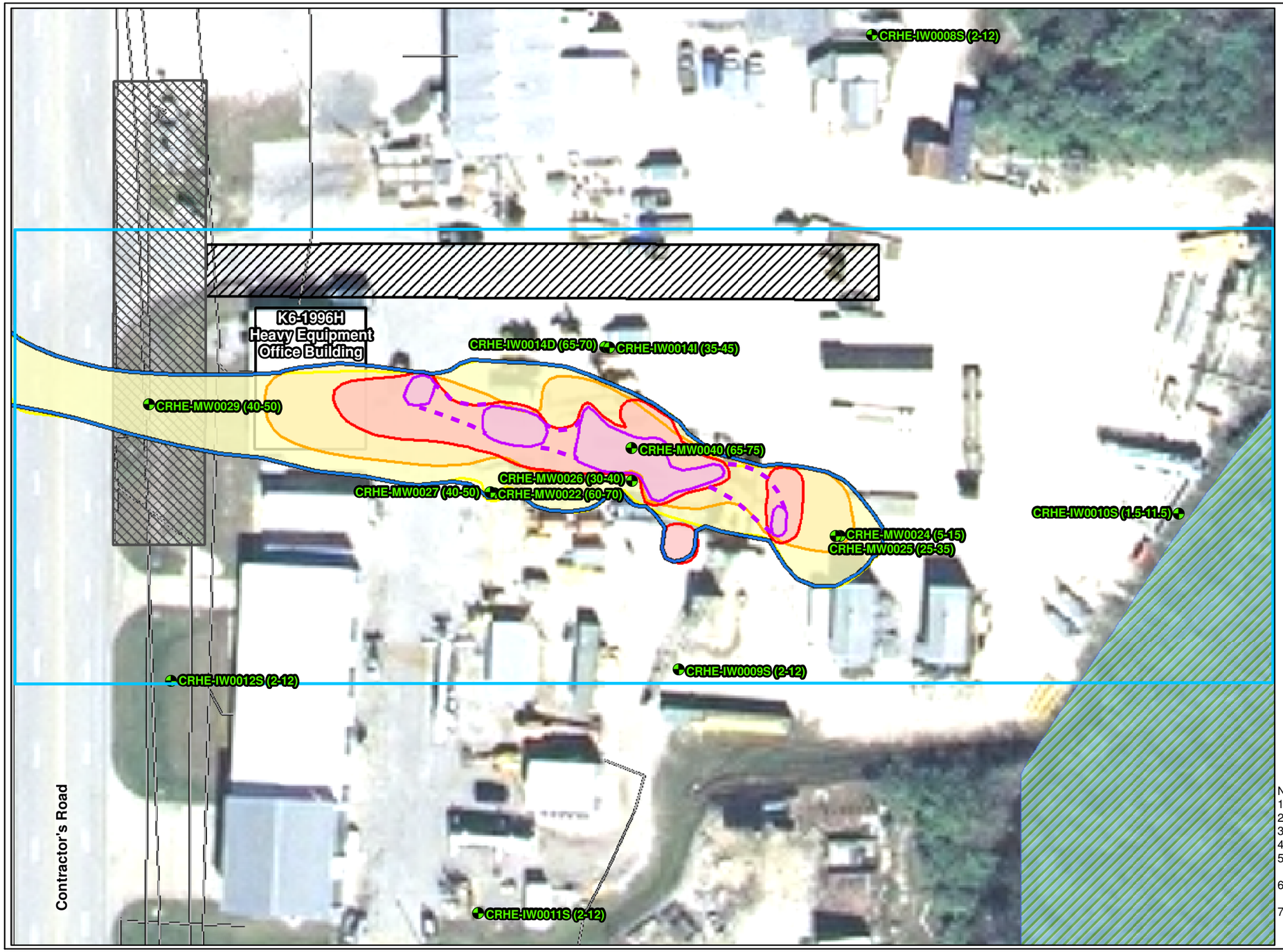
- Monitoring Well Location (showing screen interval)
- Utility
- Low Concentration Plume (TCE GCTL)
- High Concentration Plume (TCE NADC)
- Hot Spot (TCE 10xNADC)
- Source Zone (1% TCE Solubility Plume)
- Inferred Source Zone (1% TCE Solubility Plume)
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Building Outline

TCE Plume	Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	0.79
High Concentration Plume (Concentrations Greater than NADC)	0.41
Hot Spot (Concentrations Greater than 10xNADC)	0.13
Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. GCTL indicates Groundwater Cleanup Target Level.
4. NADC indicates Natural Attenuation Default Concentration.
5. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

Path: (Titusville-01\Data\)T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\Overall_TCE_Plume_HS1.mxd 06 January 2014 JRB

Figure 1
CRHE Area Hot Spot 1 Delineation: TCE Plume

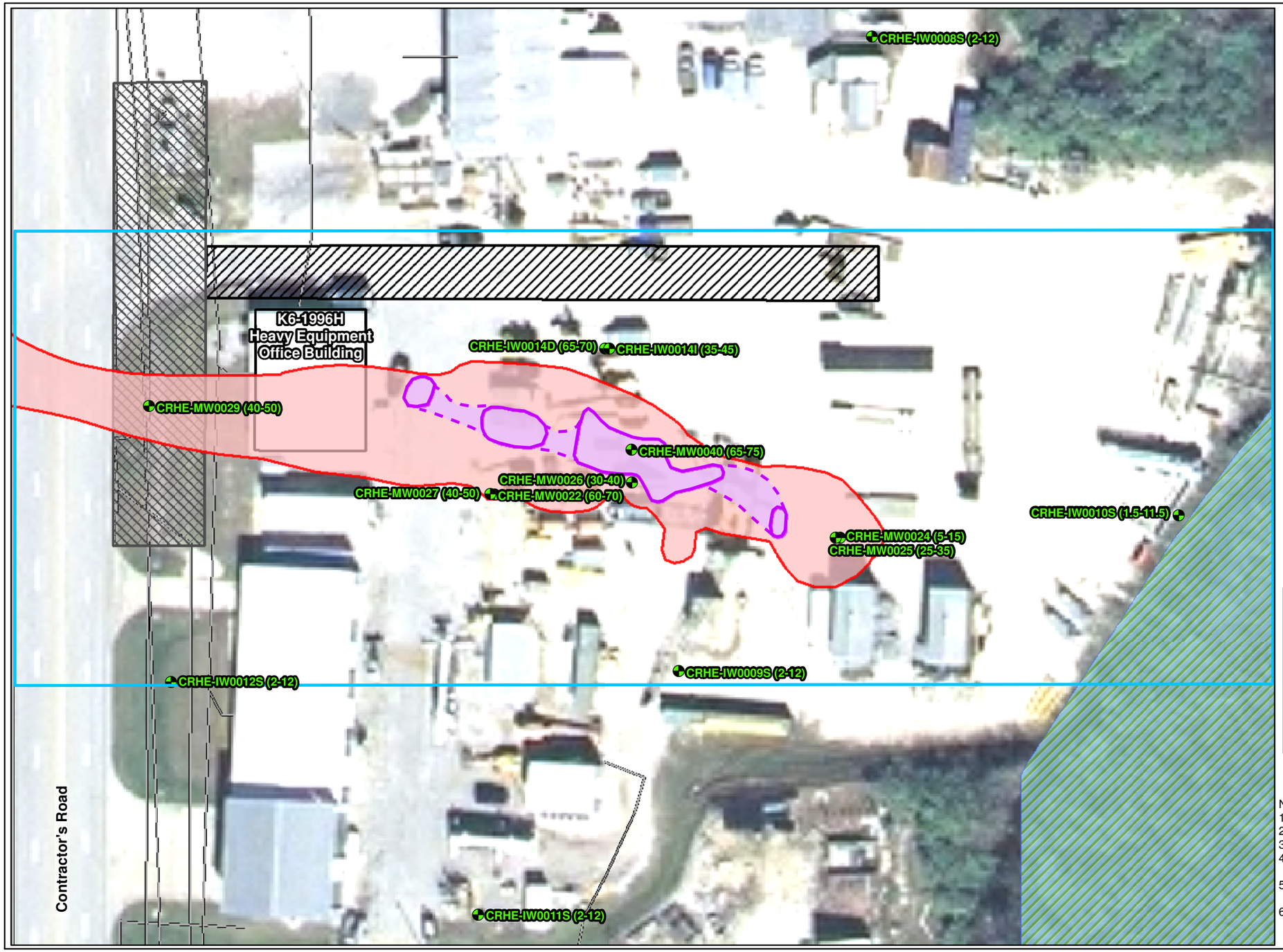


10xNADC Plumes	Area (acres)
Inferred Source Zone	0.07
TCE	0.13
cDCE	0.23
VC	0.43

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. cDCE indicates *cis*-1,2-dichloroethene.
4. VC indicates vinyl chloride.
5. CVOC indicates Chlorinated Volatile Organic Compound.
6. NADC indicates Natural Attenuation Default Concentration.
7. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

Path: (Titusville-01\Data)\T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\VOC_10xNADC_Plume_HS1.mxd 08 January 2014 JRB

Figure 2
CRHE Area Hot Spot 1 Delineation: 10xNADC Plumes



N

50 25 0 50

Feet

Legend

- Monitoring Well Location (showing screen interval)
- Utility
- Source Zone (1% TCE Solubility Plume)
- Inferred Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Building Outline

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
Hot Spot (Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. GCTL indicates Groundwater Cleanup Target Level.
4. CVOC indicates Chlorinated Volatile Organic Compound.
5. NADC indicates Natural Attenuation Default Concentration.
6. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

Path: (Titusville-01\Data)\T\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\Overall_10xNADC_Plume_HS1.mxd 06 January 2014 JRB

Figure 3
CRHE Area Hot Spot 1 Delineation: 10xNADC Plume and Source Zone

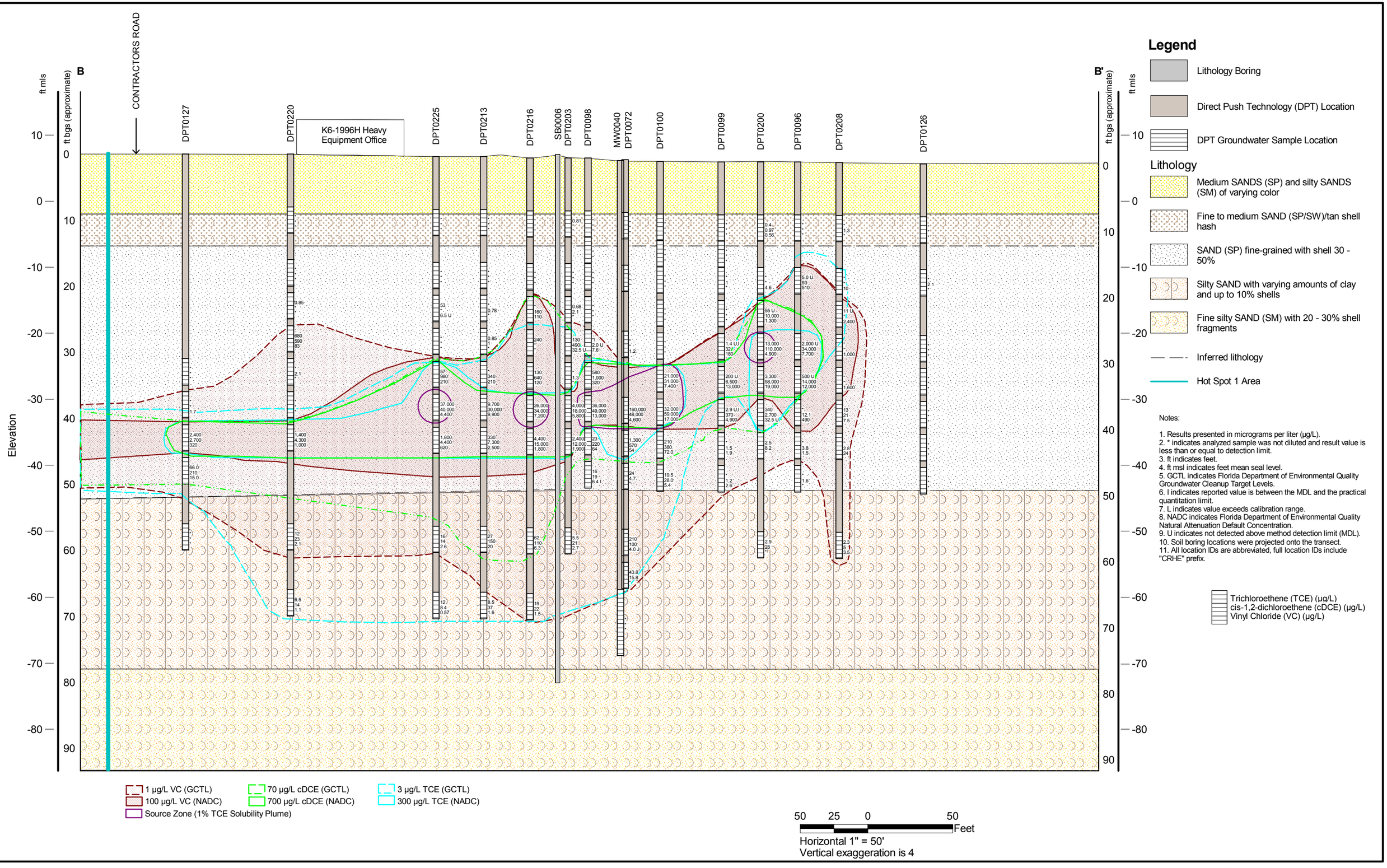
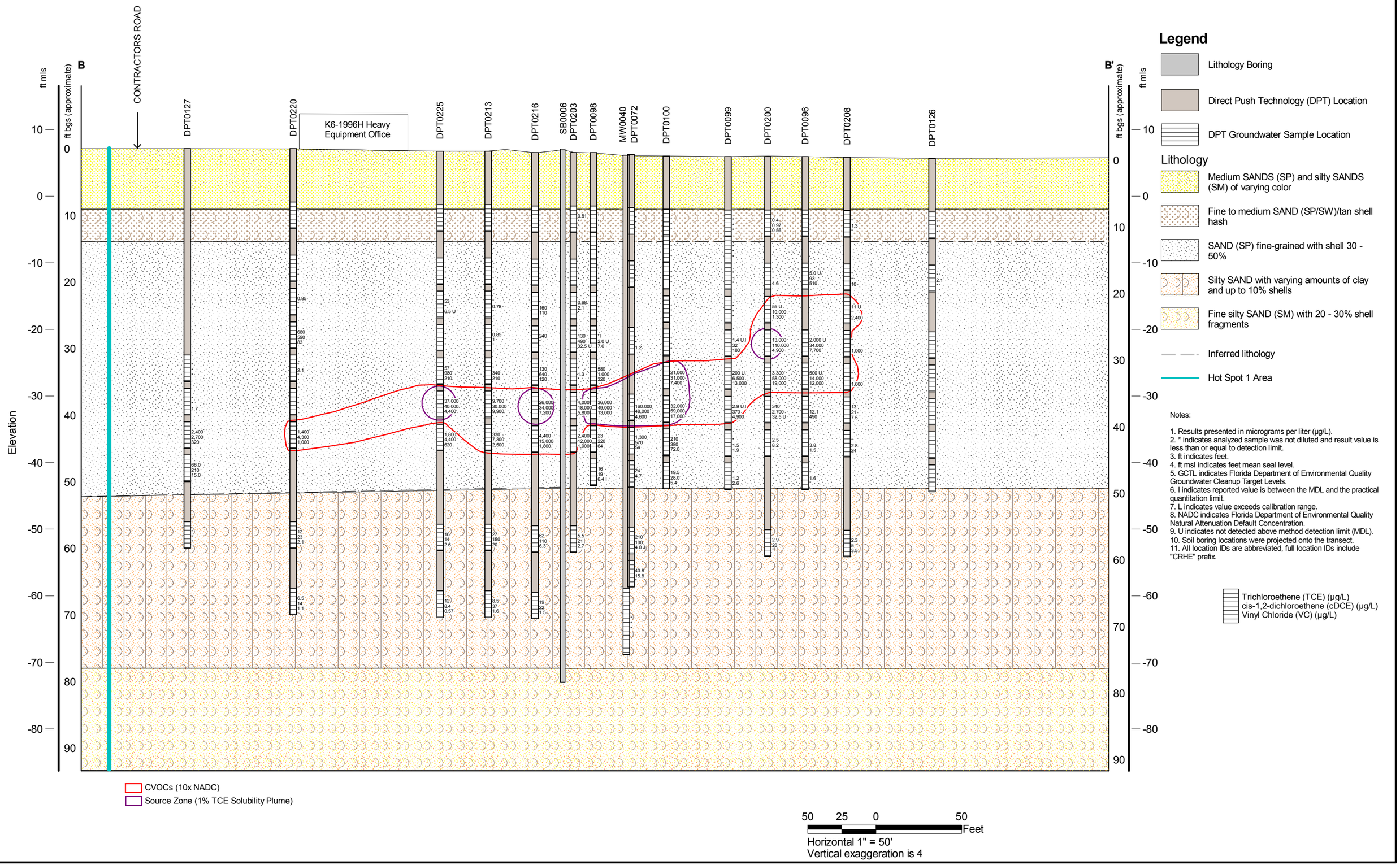


Figure 4
Lithologic Cross Section B to B' and CVOC Isocontours



Legend

- Lithology Boring
- Direct Push Technology (DPT) Location
- DPT Groundwater Sample Location

Lithology

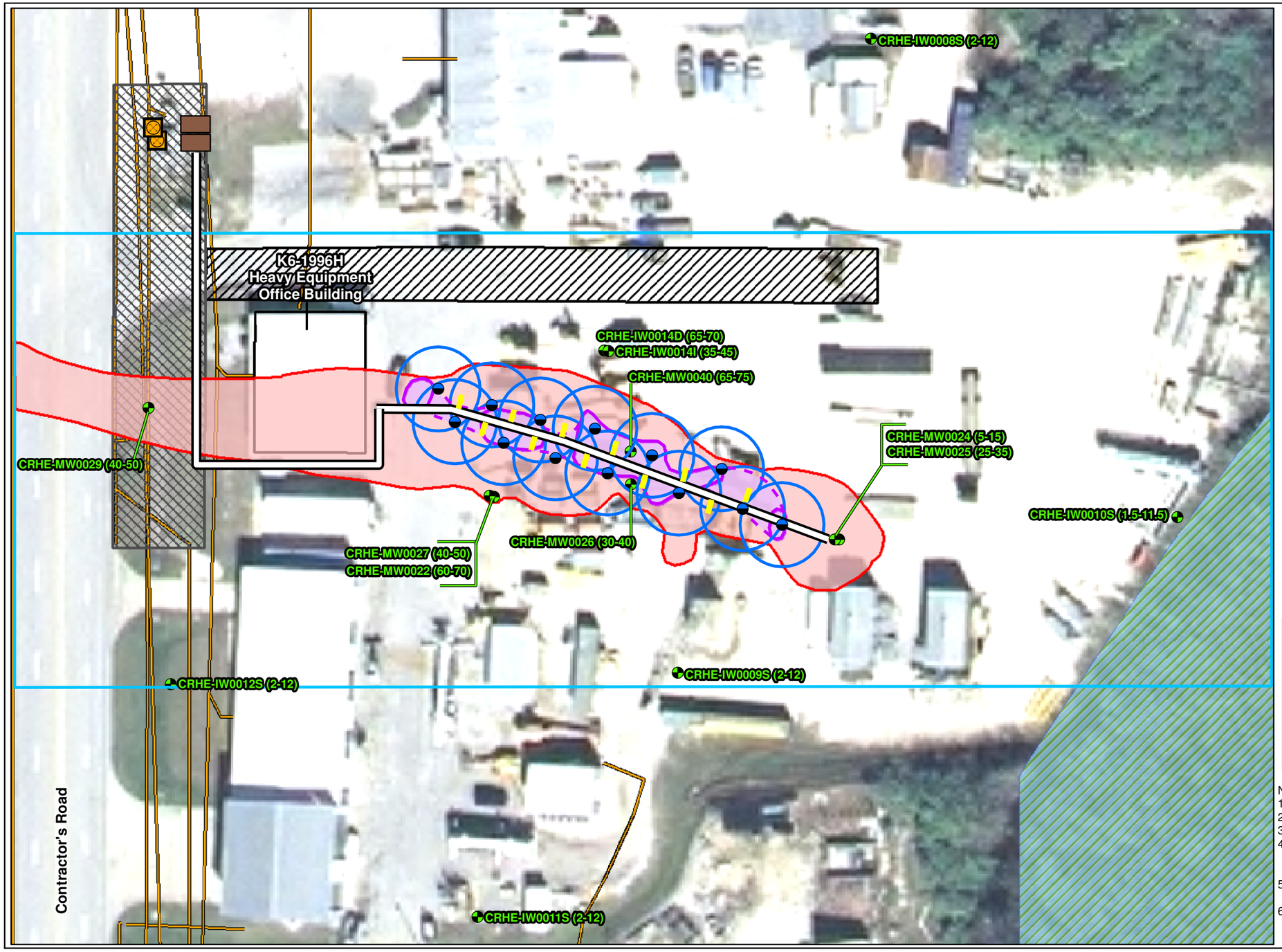
- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with shell 30 - 50%
- Silty SAND with varying amounts of clay and up to 10% shells
- Fine silty SAND (SM) with 20 - 30% shell fragments
- Inferred lithology
- Hot Spot 1 Area

Notes:

1. Results presented in micrograms per liter (µg/L).
2. * indicates analyzed sample was not diluted and result value is less than or equal to detection limit.
3. ft indicates feet.
4. ft msl indicates feet mean seal level.
5. GCTL indicates Florida Department of Environmental Quality Groundwater Cleanup Target Levels.
6. I indicates reported value is between the MDL and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Quality Natural Attenuation Default Concentration.
9. U indicates not detected above method detection limit (MDL).
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.

- Trichloroethene (TCE) (µg/L)
- cis-1,2-dichloroethene (cDCE) (µg/L)
- Vinyl Chloride (VC) (µg/L)

Figure 5
Lithologic Cross Section B to B' and CVOC Isocontours



N

50 25 0 50 Feet

Legend

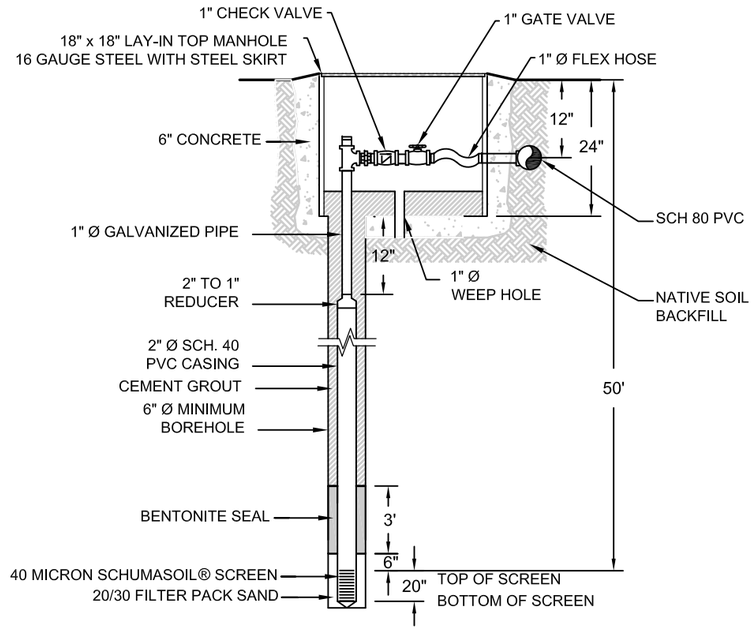
- Monitoring Well Location (showing screen interval)
- Source Zone Air Sparge Well
- Source Zone Air Sparge Estimated 20 ft Radius of Influence (13 Locations)
- Pad Mounted Transformer
- Conceptual Primary Trench
- Soil Vapor Extraction Chamber
- Utility
- Inferred Source Zone (1% TCE Solubility Plume)
- Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Air Sparge and SVE Trailers
- Building Outline

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
10xNADC Zone (CVOC Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. GCTL indicates Groundwater Cleanup Target Level.
4. Chlorinated Volatile Organic Compound (CVOC) consist of TCE, cis-1,2-dichloroethene, and vinyl chloride.
5. NADC indicates Natural Attenuation Default Concentration.
6. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

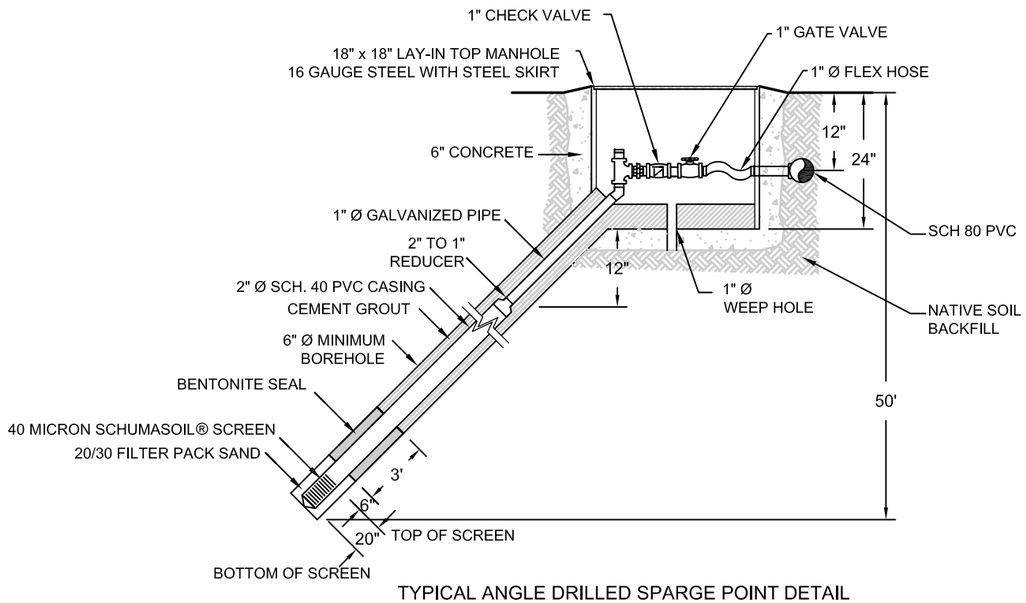
Path: (Titusville-01\Data\)T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\HS1_AS_SVE_SZ_rev23DEC2013_staggered.mxd 06 January 2014 JRB

Figure 6
CRHE Area Hot Spot 1 Air Sparge/Soil Vapor Extraction for Source Zone



TYPICAL SPARGE POINT DETAIL

NOT TO SCALE



TYPICAL ANGLE DRILLED SPARGE POINT DETAIL

NOT TO SCALE

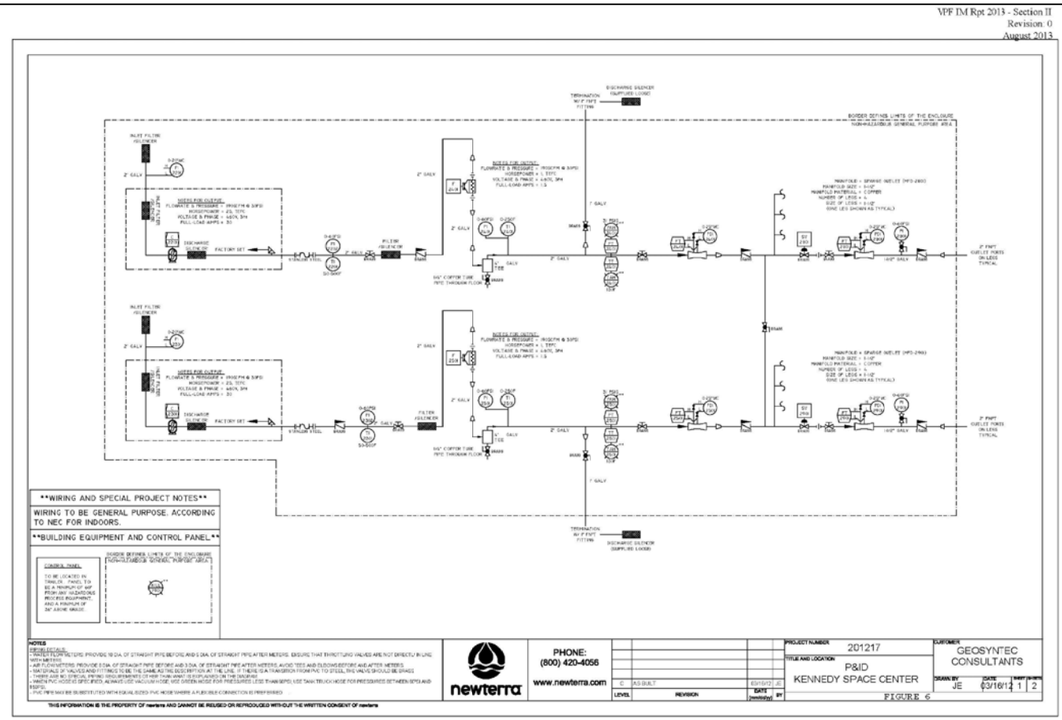


Figure 2-3
Air Sparge System Process and Instrumentation Diagram

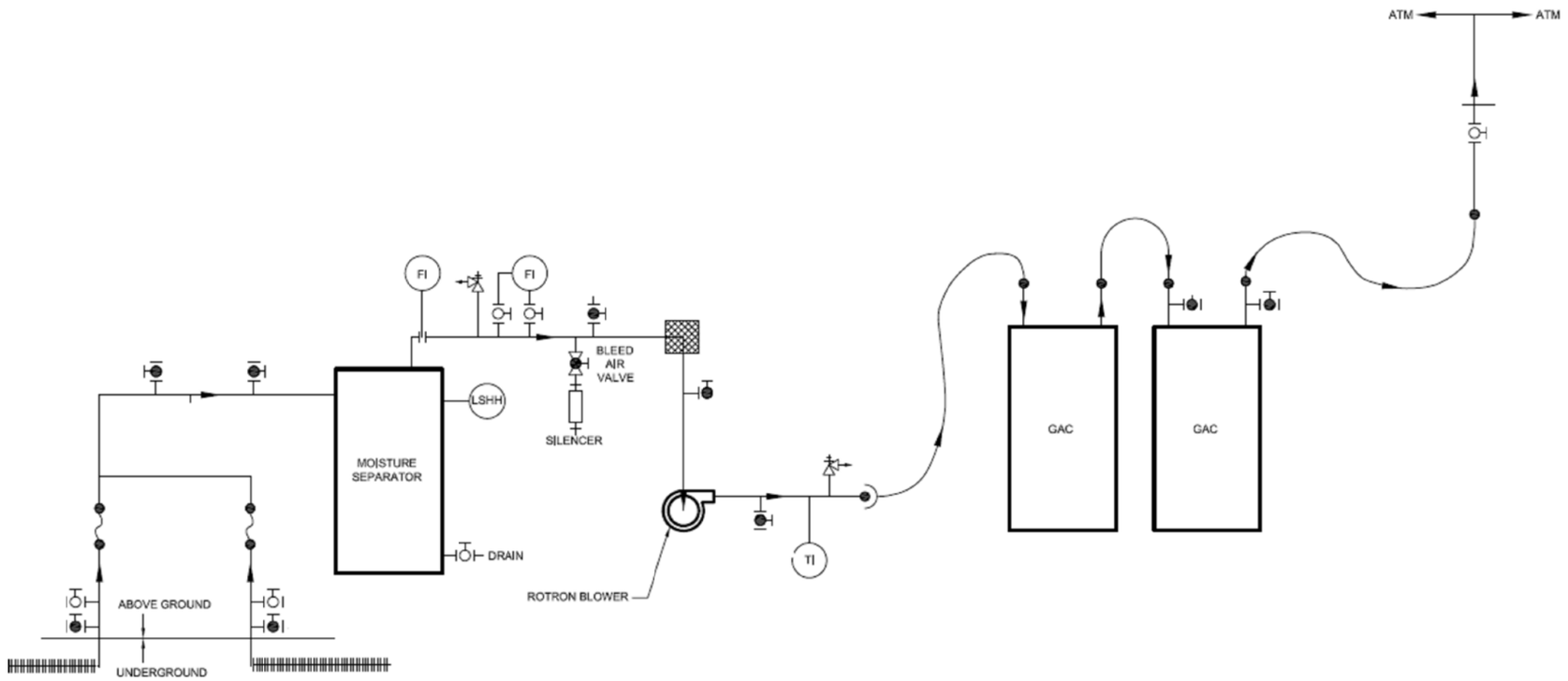
TRAILER MOUNTED AIR SPARGE PROCESS FLOW DIAGRAM (TYP)

NOT TO SCALE

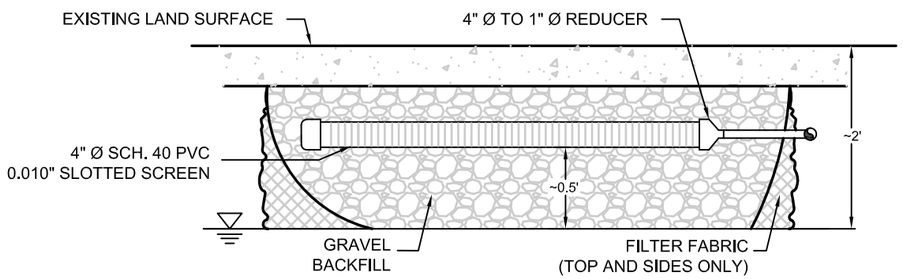
NOTES:

1. PROCESS AND INSTRUMENTATION DIAGRAM FOR NASA MOBILE AIR SPARGE UNIT # 2, SHOWN. ACTUAL UNIT USED MAY DIFFER.
2. TYPICAL AIR SPARGE FLOW RATES ARE UP TO 10 STANDARD CUBIC FEET PER MINUTE.
3. ANGLE DRILLED SPARGE POINTS WILL BE DRILLED AT A MAXIMUM 45 DEGREES.
4. SOURCE ZONE ALTERNATIVE DOES NOT INCLUDE ANGLE DRILLED SPARGE POINT.

Figure 7
Air Sparge Conceptual Process Flow Diagram and Sparge Well Construction Details



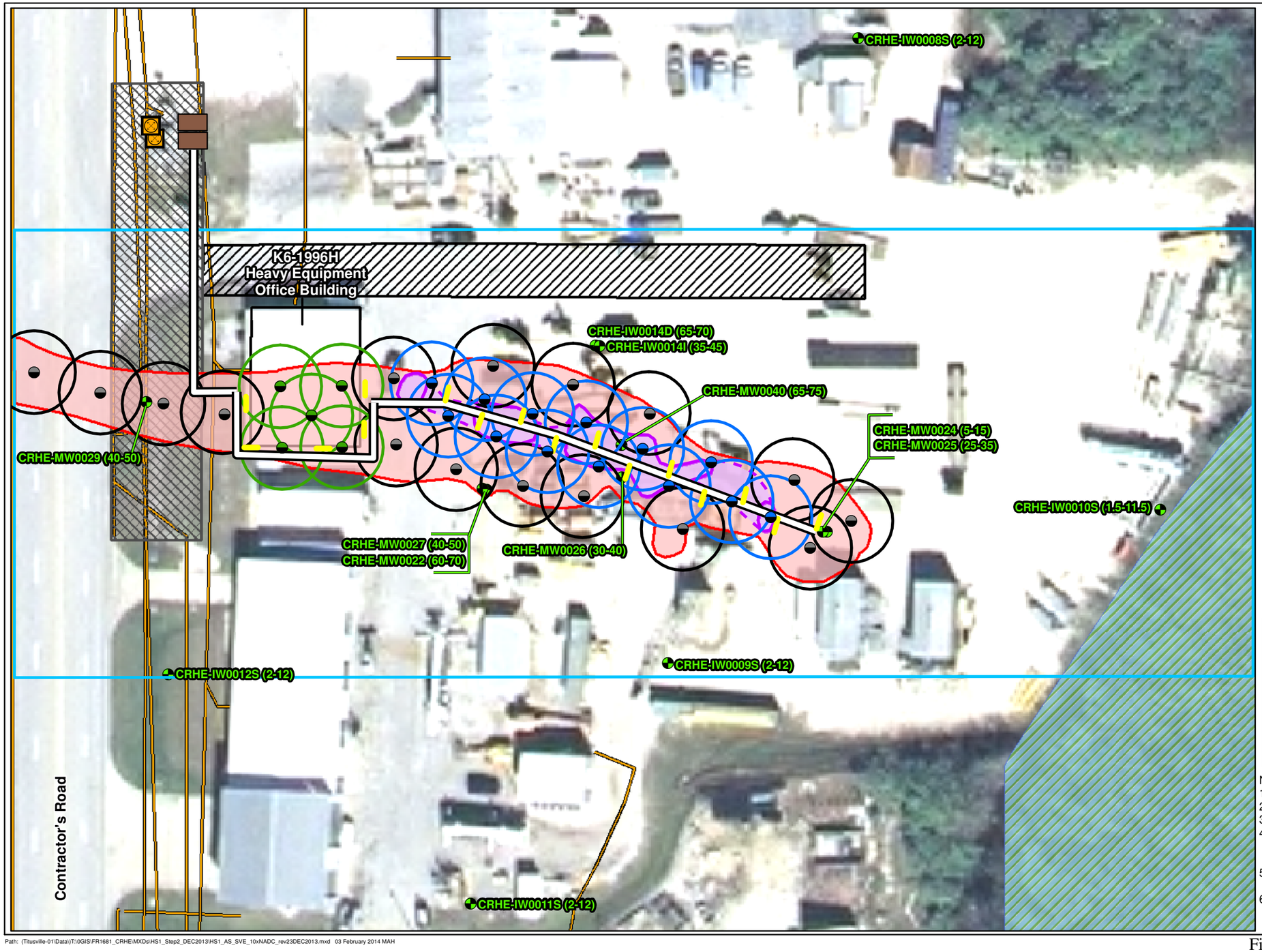
SOIL VAPOR EXTRACTION CONCEPTUAL PROCESS FLOW DIAGRAM
NOT TO SCALE



SOIL VAPOR EXTRACTION CHAMBER DETAIL
NOT TO SCALE

P:\CADD\EI\EI\STEP 2 EERD\DWG\CHAMBER DETAIL.DWG, 01 January 2014, eflemmer

Figure 8
Soil Vapor Extraction Conceptual Process Flow Diagram and Chamber Construction Details



50 25 0 50 Feet

N

Legend

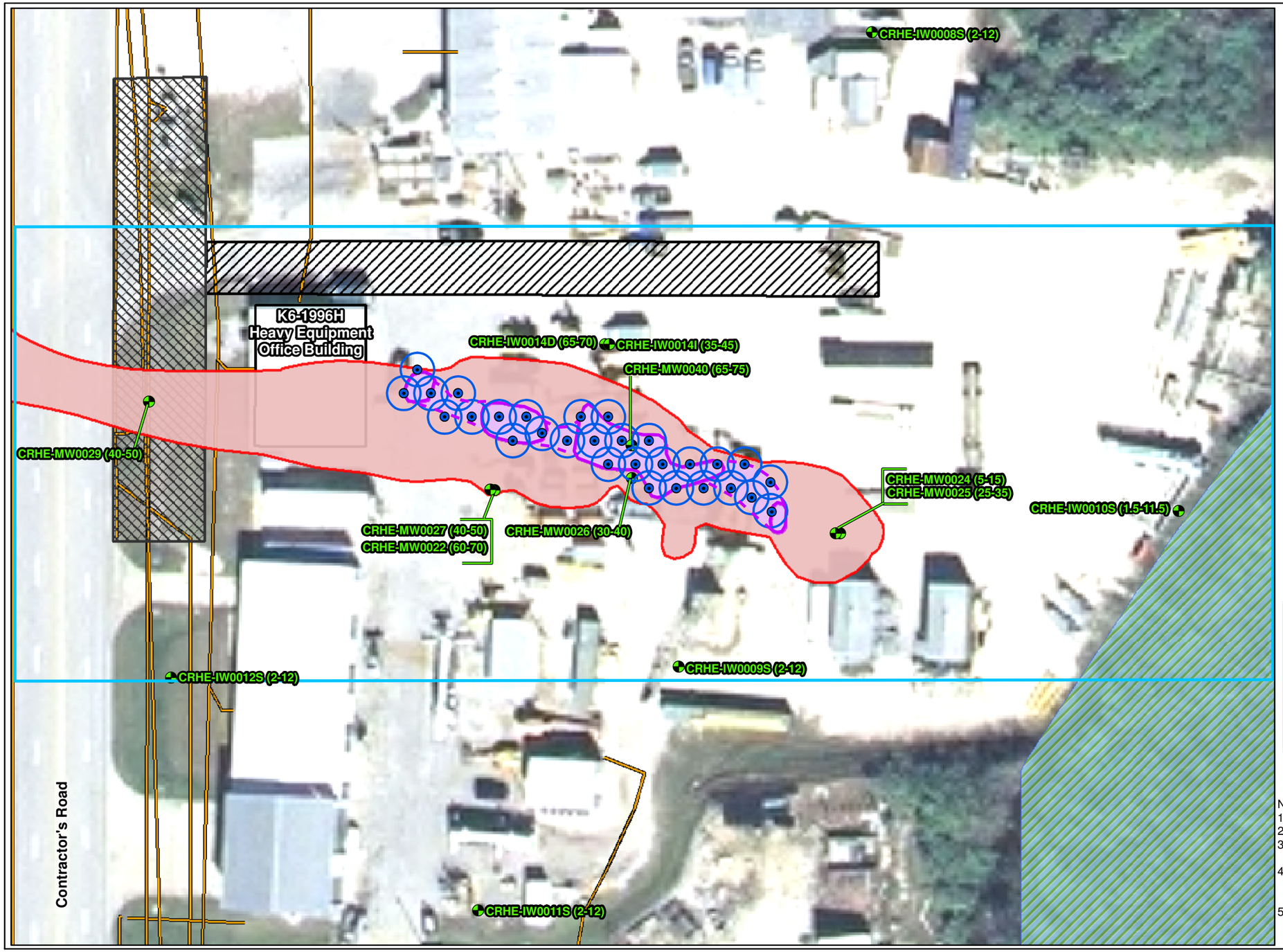
- Monitoring Well Location (showing screen interval)
- Angled Air Sparge Well
- Source Zone Air Sparge Well
- 10xNADC Air Sparge Well
- Angled Air Sparge Estimated 20 ft Radius of Influence (5 Locations)
- Source Zone Air Sparge Estimated 20 ft Radius of Influence (13 Locations)
- 10xNADC Air Sparge Estimated 20 ft Radius of Influence (16 Locations)
- Pad Mounted Transformer
- Conceptual Primary Trench
- Soil Vapor Extraction Chamber
- Utility
- Inferred Source Zone (1% TCE Solubility Plume)
- Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Air Sparge and SVE Trailers
- Building Outline

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
10xNADC Zone (CVOC Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. GCTL indicates Groundwater Cleanup Target Level.
4. Chlorinated Volatile Organic Compound (CVOC) consist of TCE, cis-1,2-dichloroethene, and vinyl chloride.
5. NADC indicates Natural Attenuation Default Concentration.
6. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

Path: (Titusville-01\Data\)T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\HS1_AS_SVE_10xNADC_rev23DEC2013.mxd 03 February 2014 MAH

Figure 9
CRHE Area Hot Spot 1 Air Sparge/Soil Vapor Extraction for 10xNADC Plume



N

50 25 0 50

Feet

Legend

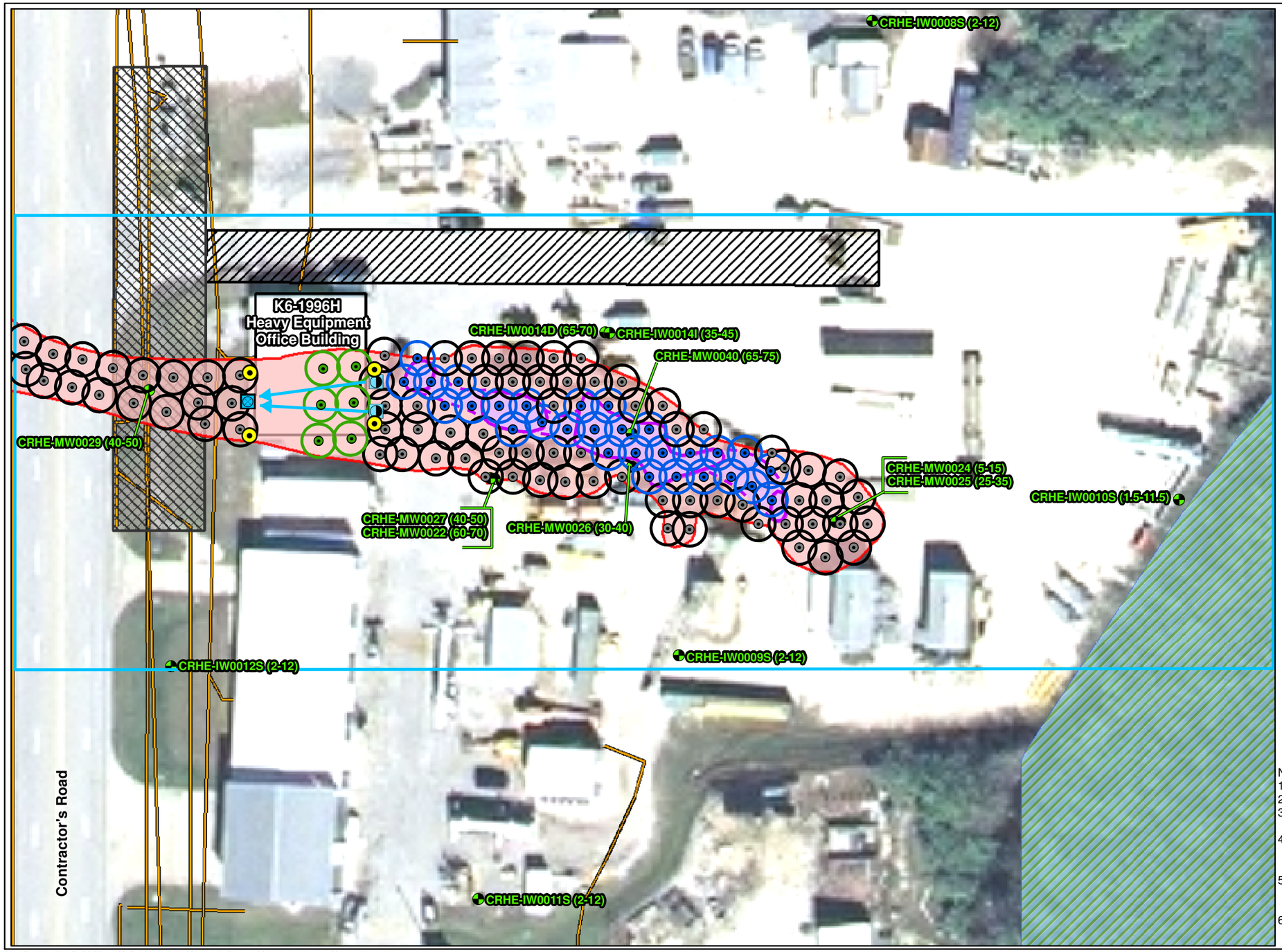
- Monitoring Well Location (showing screen interval)
- Source Zone Injection Point
- Source Zone Injection Estimated 8 ft Radius of Influence (29 Locations)
- Utility
- Inferred Source Zone (1% TCE Solubility Plume)
- Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Building Outline

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
10xNADC Zone (CVOC Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. NADC indicates Natural Attenuation Default Concentration.
4. Chlorinated Volatile Organic Compound (CVOC) consist of TCE, cis-1,2-dichloroethene, and vinyl chloride.
5. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

Path: (Titusville-01\Data)\T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\HS1_Bio_SZ.mxd 06 January 2014 JRB

Figure 10
CRHE Area Hot Spot 1 Bioremediation of the Source Zone



N

50 25 0 50 Feet

Legend

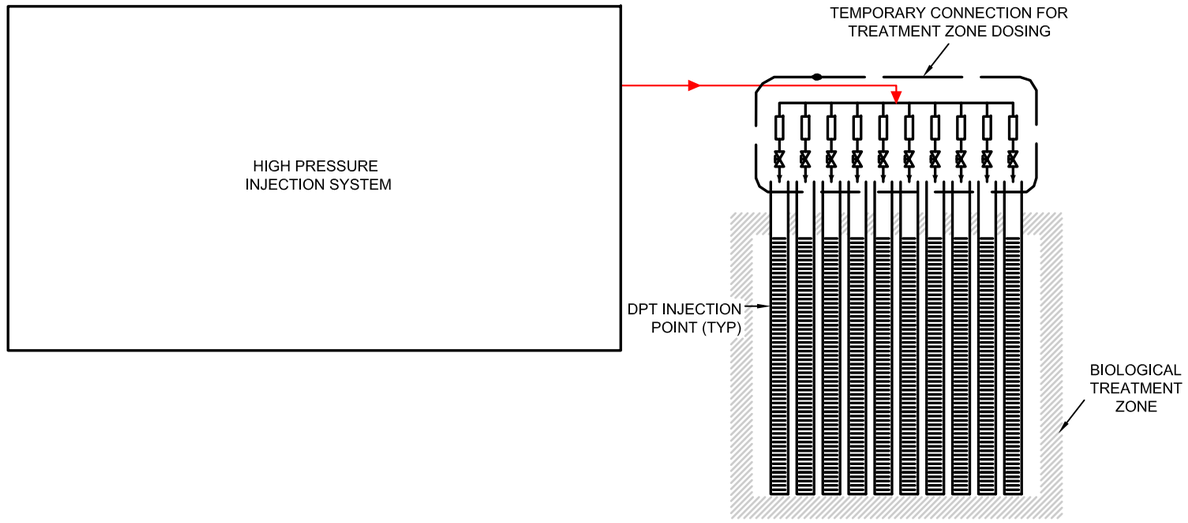
- Monitoring Well Location (showing screen interval)
- Groundwater Injection Well
- Groundwater Extraction Well
- Vapor Extraction Point
- Angled Injection Point
- Source Zone Injection Point
- 10xNADC Injection Point
- Angled Injection Estimated 8 ft Radius of Influence (6 Locations)
- Source Zone Injection Estimated 8 ft Radius of Influence (29 Locations)
- 10xNADC Injection Estimated 8 ft Radius of Influence (78 Locations)
- Estimated Extracted Groundwater Flow
- Utility
- Inferred Source Zone (1% TCE Solubility Plume)
- Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Building Outline

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
10xNADC Zone (CVOC Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. NADC indicates Natural Attenuation Default Concentration.
4. Chlorinated Volatile Organic Compound (CVOC) consist of TCE, cis-1,2-dichloroethene, and vinyl chloride.
5. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.
6. Vapor extraction points will be installed for vapor mitigation.

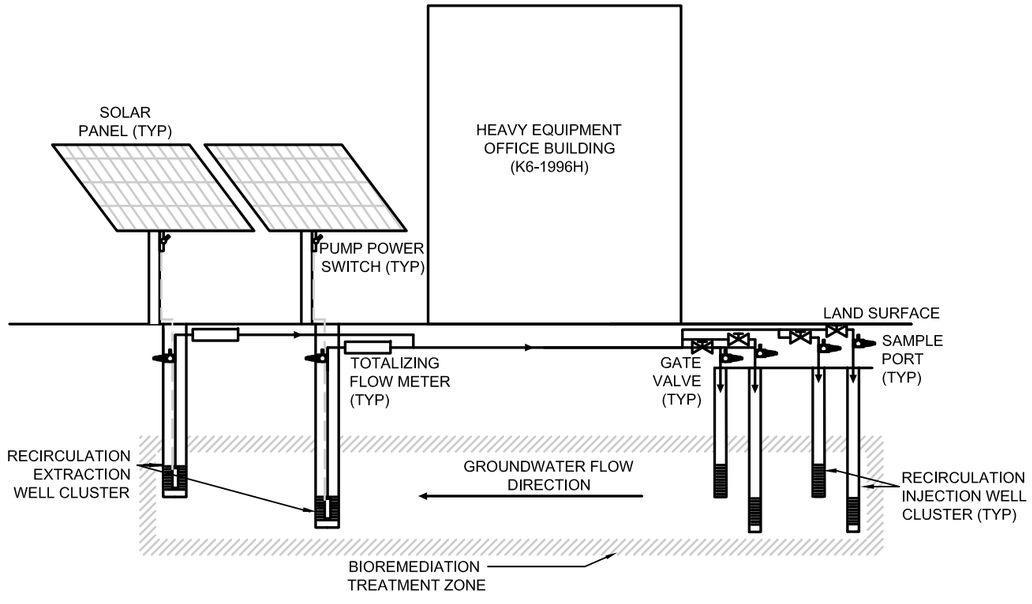
Path: (Titusville-01\Data)\T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\HS1_Bio_10xNADC.mxd 06 January 2014 JRB

Figure 11
CRHE Area Hot Spot 1 Bioremediation of the 10xNADC Plume



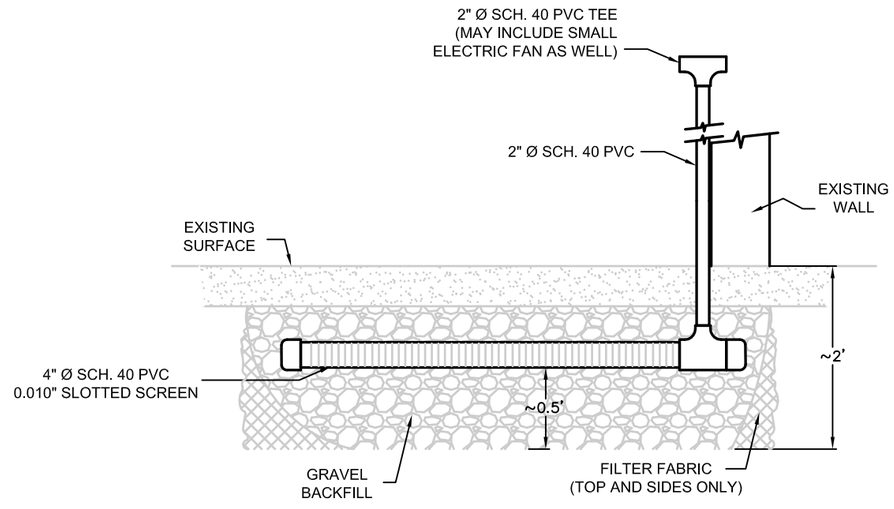
BIOREMEDIATION CONCEPTUAL PROCESS FLOW DIAGRAM

NOT TO SCALE



RECIRCULATION CONCEPTUAL PROCESS FLOW DIAGRAM

NOT TO SCALE



PASSIVE VENT CONSTRUCTION DETAILS

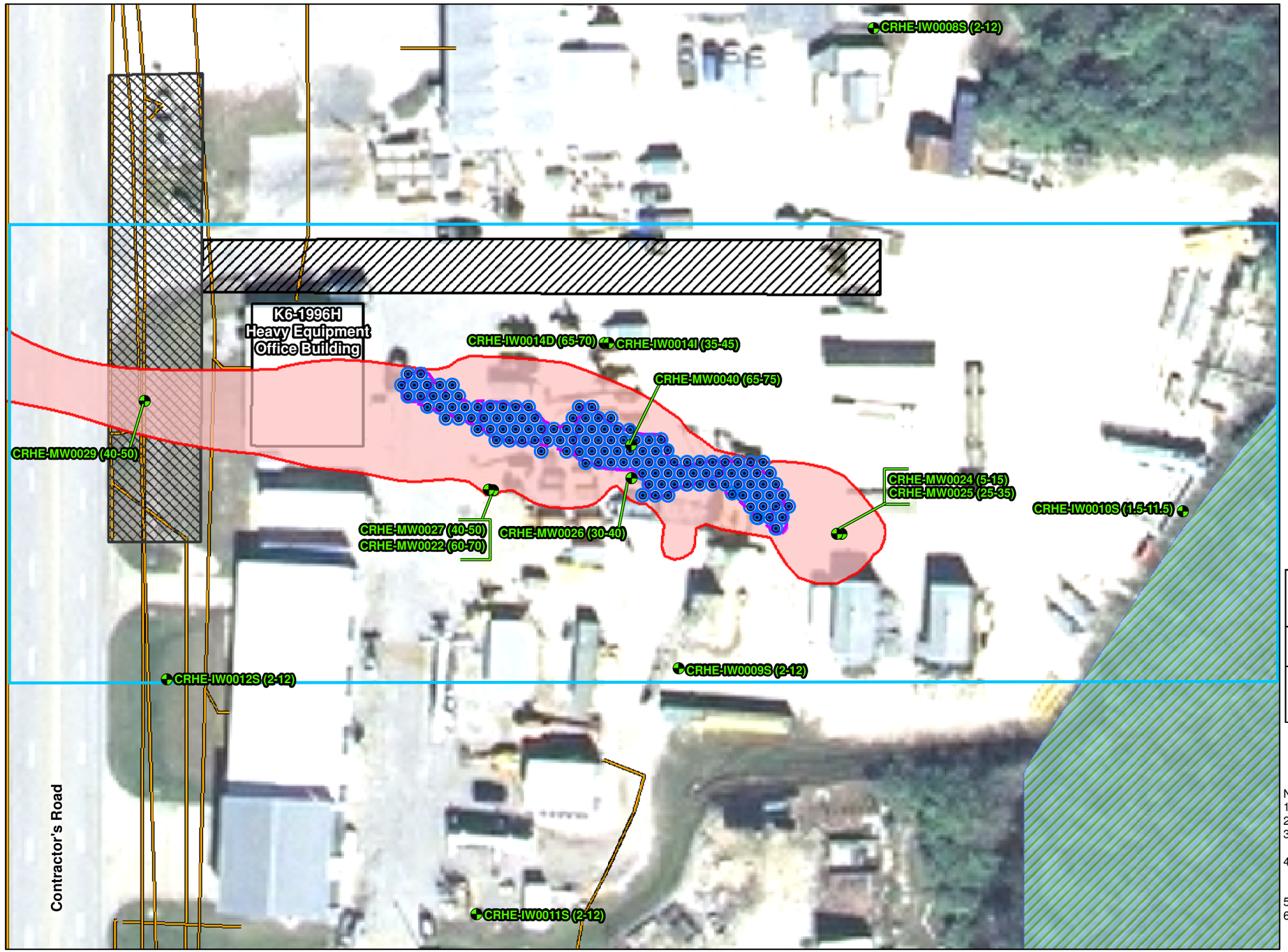
NOT TO SCALE

NOTE:

1. RECIRCULATION SYSTEM AND PASSIVE VENTS UTILIZED IN BIOREMEDIATION OF 10XNADC PLUME ONLY.

P:\CAD\FR16811\STEP 2 EE\PPD BIO HEADER VENT RECIRC.DWG (6 January 2014) ebawson

Figure 12
Bioremediation and Recirculation Conceptual Process Flow Diagrams and Passive Vent Construction Details



N

50 25 0 50

Feet

Legend

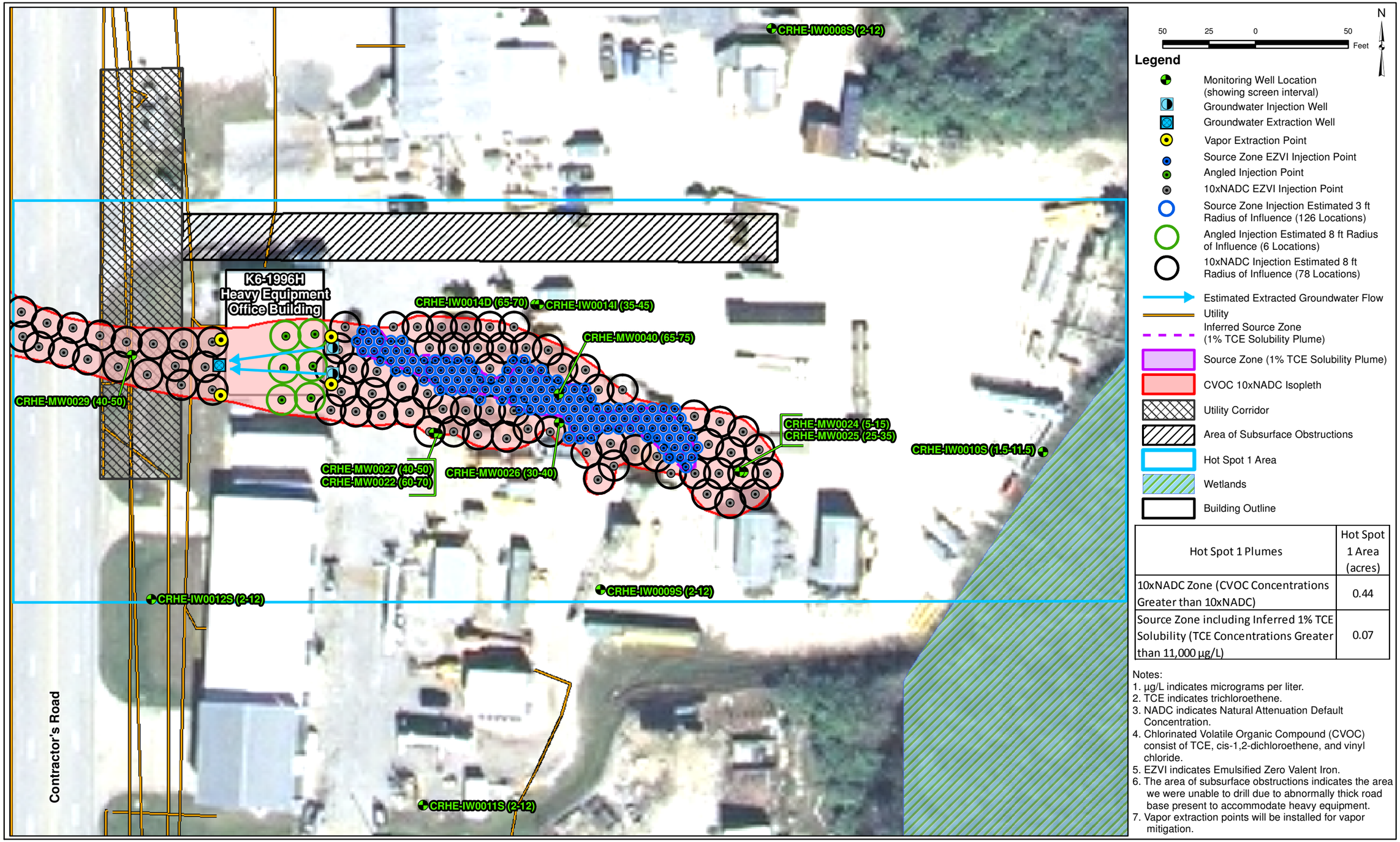
- Monitoring Well Location (showing screen interval)
- Source Zone EZVI Injection Point
- Source Zone Injection Estimated 3 ft Radius of Influence (126 Locations)
- Utility
- Inferred Source Zone (1% TCE Solubility Plume)
- Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Utility Corridor
- Area of Subsurface Obstructions
- Hot Spot 1 Area
- Wetlands
- Building Outline

Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
10xNADC Zone (CVOC Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. NADC indicates Natural Attenuation Default Concentration.
4. Chlorinated Volatile Organic Compound (CVOC) consist of TCE, cis-1,2-dichloroethene, and vinyl chloride.
5. EZVI indicates Emulsified Zero Valent Iron.
6. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.

Path: (Titusville-01\Data)\T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\HS1_EZVI_SZ.mxd 06 January 2014 JRB

Figure 13
CRHE Area Hot Spot 1 EZVI of Source Zone



Hot Spot 1 Plumes	Hot Spot 1 Area (acres)
10xNADC Zone (CVOC Concentrations Greater than 10xNADC)	0.44
Source Zone including Inferred 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.07

Notes:
1. µg/L indicates micrograms per liter.
2. TCE indicates trichloroethene.
3. NADC indicates Natural Attenuation Default Concentration.
4. Chlorinated Volatile Organic Compound (CVOC) consist of TCE, cis-1,2-dichloroethene, and vinyl chloride.
5. EZVI indicates Emulsified Zero Valent Iron.
6. The area of subsurface obstructions indicates the area we were unable to drill due to abnormally thick road base present to accommodate heavy equipment.
7. Vapor extraction points will be installed for vapor mitigation.

Path: (Titusville-01\Data)\T:\0GIS\FR1681_CRHE\MXDs\HS1_Step2_DEC2013\HS1_EZVI_10xNADC.mxd 06 January 2014 JRB

Figure 14
CRHE Area Hot Spot 1 Bioremediation of 10xNADC Plume and EZVI of Source Zone

Geosyntec consultants

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Titusville, Florida 32780
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FAX 321.269.5813
www.geosyntec.com

MEMORANDUM

Date:	6 February 2014
To:	Anne Chrest
Copies to:	NASA Remediation Team
From:	Tom Peel, Ph.D., Rebecca Daprato, Ph.D., P.E., and Jill Johnson, P.G.
Subject:	Contractor's Road Heavy Equipment Area Hot Spot 1 Step 2 Engineering Evaluation – Response to Comments

---

Comments on the Step 2 Engineering Evaluation were received and are addressed below. The comment is listed first and Geosyntec's response is listed in italics below the comment.

Jacobs Comments:

The ADP provided a good synopsis of known site conditions and is well-illustrated. The conceptualization of a continuous source zone is a very good approach. We offer the following comments for your consideration:

Step 2 ADP

1. Slide 24 (new slide 27) – For the CAO, please clarify what is meant by "concentrations which will support Long Term Monitoring." Since the CAO applies to a hot spot and source zone, it seems an HCP action would be a potential follow-on step as overall site cleanup progresses.

Response: With the existing CAO, NASA, the KSC Remediation Team, and the A&E have the flexibility to evaluate performance and base a recommendation for follow-up action (if necessary) on the performance. If the CAO is to progress the site to an HCP action, it does not provide the same level of flexibility and decision making based on implementation results.

2. Alternative 1A, SZ Air Sparge and SVE: General – The site conceptual model includes probable DNAPL in the SZ. There is little literature regarding reduction of DNAPL by air sparging, so citations of applicable studies would be helpful in evaluating the estimate for the time to achieve the CAO and in evaluating the likelihood of rebound. We recognize that

good information about air sparging performance in DNAPL source zones will be generated by the CCB Hot Spots 1 and 2 IM in the near future.

Response: *Based on the size of the source zone (0.04 acres – the non-inferred area), the likelihood of "pools" of DNAPL mass is relatively small. It is anticipated that the DNAPL mass present is likely smaller ganglia, which are easier to treat via AS. It has been documented that AS is a viable technology for sites that have low levels of DNAPL and LNAPL (not recoverable) as noted in the references below.*

- *Air Sparging Guidance Document (TR-2193-ENV) Naval Facilities Engineering Service Center, August 2001;*
- *Dense Nonaqueous Phase Liquids (DNAPL) Treatment Technologies (http://cluin.org/contaminantfocus/default.focus/sec/Dense_Nonaqueous_Phase_Liquids_%28DNAPLs%29/cat/Treatment_Technologies/) – developed by the EPA Ground Water Task Force.*
- *While not a specific literature reference, Geosyntec designed, installed, and operated an AS/SVE system at Lipham Cleaners in Longwood, Florida, which had PCE groundwater concentrations exceeding 10% of solubility (0.32 acres) and plume depth similar to CRHE (depth of sparge wells ~36 ft BLS). The AS operations at the site reduced groundwater concentrations to less than NADCs in 2.5 years.*

3. Alternative 1A, SZ Air Sparge and SVE: General – Where there is DNAPL, the free phase product (TCE in this case) typically occupies a significant portion of available pore space. Air will seek the path of least resistance, so it seems likely that air-to-DNAPL contact will be low. What is the expected mechanism for reduction of DNAPL mass by air sparging? Please include your assumptions about degradation rate and effectiveness. It is important to understand these in order to evaluate and confirm estimates of time to achieve NADCs and cost.

Response: *DNAPL mass reduction via AS can occur via two mechanisms: (i) the volatilization of the DNAPL via direct contact with the air; and (ii) the dissolution of DNAPL into the groundwater as the dissolved concentrations are removed via volatilization. The rate for direct volatilization of the DNAPL would be comparable to rates observed at other sites where AS has been implemented. The rate for dissolution of DNAPL into the groundwater would be slower. The time to achieve the CAO was estimated to be the time to reduce CVOCs to NADCs and was based on air sparging results at other sites (one to two years) with time added for the dissolution of the DNAPL into groundwater.*

It should be noted that the conceptual layout also included a very robust air sparge well network in the area of potential DNAPL to create an aggressive environment (20 foot spacing of AS wells). Operation of the system in this environment would include an aggressive dynamic approach to maximize air-to-DNAPL contact.

4. Alternative 1B, 10X NADC Plume Air Sparge and SVE: Slide 35 – The conceptual plan calls for angular drilling to deploy AS wells under the building, with SVE wells positioned along the perimeter. Please confirm the influence of the perimeter SVE network is adequate to capture vapors from beneath the building.

Response: The estimated ROI of the SVE system is between 20 ft and 30 ft (as described in the Description of Alternatives). The layout of the SVE wells with the estimated ROI should be adequate to cover the area underneath the building (approximate size of 70 by 50 ft) – see updated figure in the ADP with estimated ROI presented on slide 50. The layout is more than adequate for a conceptual design and associated costing and the exact details of the SVE layout will be evaluated during the design phase, if AS/SVE is selected.

5. Alternative 1B, 10X NADC Plume Air Sparge and SVE: Slide 40 (new slide 54) – The plastic cap described in the Alternatives Description is not included in the SVE chamber detail. We suggest it be added.

Response: A note was added to the ADP to provide information about the plastic cap on the SVE chamber detail. The specific engineering details of the plastic cap (which may not be warranted at all locations) is a design detail which would be included in the Interim Measure design, if AS/SVE is selected.

6. Alternative 2A, SZ Bioremediation: General – Emulsified oil is well-documented as a successful technology for enhanced reductive dechlorination of hot spots and areas affected by flux from DNAPL, particularly in aerobic environments, but literature regarding reduction of DNAPL mass is sparse. Citations of applicable studies would be helpful. We note the reference to the MLP/VAB Area and the successful treatment there, but also note that the highest TCE detection at that site was an order of magnitude below the highest detections at CRHE.

Response: Bioremediation has been utilized at a number of DNAPL sites, including successful applications at three NASA sites where DNAPL has been present: LC34 (Demonstration of Biodegradation of DNAPL - 2004), LC34 Partitioning Electron Donor

IM Hot Spot 1, and MLP (biostimulation using ethyl lactate). It should also be noted that at facilities where EZVI has been applied (LC34, Hangar K and Paris Island) collected data and documents indicate that the mass reduction is due to both abiotic and biotic reductive dechlorination.

With regards to TCE concentrations at MLP, TCE was measured at a maximum concentration of 95,000 µg/L from DPT location MLP-PT6 in 2002 and a maximum soil concentration of 102 mg/kg of TCE was detected (MLP-RTS1). The referenced concentrations are indicators of the presence of DNAPL. Concentrations of all CVOCs were reduced to below NADCs (TCE and cDCE to below GCTL) and VC is the only COC that remains above the GCTL.

The LC34 PED IM was implemented in an area with a maximum TCE concentration of 141,000 µg/L, an average TCE concentration of 22,000 µg/L, and a maximum soil concentration of 56.2 mg/kg TCE.

The LC34 (Demonstration of Biodegradation of DNAPL) initial TCE concentration of 132,000 µg/L to 350,000 µg/L and complete dechlorination to ethene was observed, with a TCE mass removal of 98.5%. Complete dechlorination occurred with up to 92 mg/L ethene production observed.

Based on the above data, the use of MLP dechlorination rates is adequate to estimate a time to reach CAO for CRHE.

Additionally, there is an Interstate Technology and Regulatory Council guidance document that consider the bioremediation of DNAPL source zones viable and provide case studies: In Situ Bioremediation of Chlorinated Ethene: DNAPL Source Zones (BIODNAPL) – June 2008.

7. Alternative 2A, SZ Bioremediation: General/Alternatives Description – Since contact with DNAPL is critical, please consider adding a discussion of the delivery mechanism for the emulsified oil. While the chase water will be beneficial in overall dispersion, it may be unlikely to enhance contact within DNAPL zones.

Response: Direct contact of the oil with the DNAPL is not required for bioremediation to be successful. Mass removal of DNAPL during bioremediation is due to the microorganisms dechlorinating the CVOC mass (reducing concentrations) in the dissolved phase, which creates a concentration gradient and then dissolution of the DNAPL occurs. The emulsified

oil will be delivered via DPT injection (6 to 8 gpm and 30 to 45 psi) and the chase water will be used to create the desired radius of influence from each injection point.

8. Alternative 2A, SZ Bioremediation: Slide 43 (new slide 59) – Was a case study or information from one of your other sites used to develop the conceptual design of a 0.5% initial/0.25% follow-up pore volume emulsified oil application?

Response: The emulsified oil dosing that we have used successfully during bioremediation implementation is between the range of 0.1% to 1% of the pore space and usually for dissolved phase plumes is around 0.1 to 0.2% of the pore space. The dosing of 0.5% and 0.25% was selected within that range and above the vendor's recommendation to be conservative.

9. Alternative 2A, SZ Bioremediation: Slide 43 (new slide 59)/Alternatives Description – We assume multiple lifts will be used to deliver emulsified oil through the treatment zone. What is the anticipated vertical area of influence for each lift?

Response: Multiple lifts would occur to deliver the emulsified oil, continuously over the entire treatment interval. The anticipated vertical lift would be every 2 feet and emulsified oil and chase water would be injected to reach the desired ROI. The injection details will be decided during the design, if bioremediation is selected.

10. Alternative 2A, SZ Bioremediation: Slide 46 (new slide 66) – Since the estimate of time to achieve CAO was based on MLP dechlorination rates, was a factor applied to account for the variance in TCE concentrations between the two sites?

Response: A factor was not applied to account for the variance in concentrations between the two sites, since the TCE concentrations are similar – see response to Jacob's comment #6. TCE is generally not the rate limiting CVOC with regards to dechlorination (longest time to NADC); it is usually vinyl chloride. The time to reach CAO was based on the dechlorination rates for vinyl chloride from MLP. Using MLP rates, time to reach NADC for TCE was approximately 2 years, for cDCE was approximately 3.4 years and for vinyl chloride approximately 4.4 years; therefore, a range of 3 to 5 years was selected for this evaluation.

11. Alternative 3A, SZ EZVI: Slide 54 (new slide 78) /Alternatives Description – What injection technique did Vironex use for development of the conceptual design? Will that technique be able to access the DNAPL pore space? Note that at Hangar K, a 6-ft. ROI was

achieved using the Badger© technology. (A 6-ft ROI was also assumed in the recent injections at the GSA Reclamation Yard, but we won't have confirmation of the ROI until the first performance monitoring event.) We are concerned both that the 3-ft. ROI assumed may be overly conservative, but – at the same time – injection cost may be understated since the injection technique is not described.

Response: Vironex uses a high-performance double piston pump to inject EZVI, top down, at approximately 50 gpm to achieve lateral distribution of EZVI. The high frequency piston action of the pump helps to distribute the EZVI throughout the pore space to achieve contact with the DNAPL. Each injection interval is separated by 2 ft to help minimize creation of vertical flow paths.

The estimated 3 ft ROI was conservative, so we have also provided a less conservative costing based on an estimated 6-ft ROI. It should be noted that our definition of ROI involves achievement of complete distribution of injectate throughout the desired target interval (not an indicator of a seam of EZVI at 6 ft); accordingly, we used a more conservative 3 ft ROI since the ZVI component is dependent on contact to achieve the desired abiotic reductions intended to target DNAPL. This non-conservative costing resulted in a capital cost range of $673,000 to $734,000 and the second injection cost ranged from $306,000 to $336,000 (total cost reduction of $90,000). For the source zone, this would reduce the cost range from $1,240,000 to $1,340,000 to $1,149,000 to $1,249,000. For the 10X NADC area, this would reduce the cost range from $1,718,000 to $1,883,000 to $1,628,000 to $1,793,000. The cost driver for EZVI is the purchase of the material (~$700,000 for two injection events); accordingly, the less conservative 6 ft ROI does not have a significant bearing on the range of costs.

12. Alternative 3A, SZ EZVI: Slide 57 (new slide 83) – Regarding time to achieve CAO based on results from Hangar K: At Hangar K, TCE concentrations were reduced by 88% six months after the first injection. After a pre-programmed second injection and a total elapsed time of 18 months from the first injection, TCE concentrations were reduced by 99%. It does not appear that NADC for all chlorinated VOCs will be reached within 5 years.

Response: The concentrations at Hangar K were higher and the impacted area was larger than what is observed at CRHE; two 200 ppm TCE plumes were delineated that were approximately 3,000 and 6,200 square feet (with impacts from ~ 30 to 52 ft BLS).

To reduce the average CVOC concentrations to their NADCs in the SZ, a reduction in mass of 98.4% (VC), 98.5% (cDCE), and 99.6% (TCE) is required. If the removal is based on the maximum concentrations, a concentration reduction of 99.8% (TCE), 99.4% (cDCE) and 99.5% (VC) is required. Based on the site conditions, we believe a 5 year timeframe is adequate for these reductions.

13. Alternative 3B, 10X NADC Plume EZVI and Bioremediation with Recirculation: General – EZVI was engineered specifically as a DNAPL technology. Consider reducing the footprint of the EZVI application in the inferred SZ. When using EZVI in combination with technologies that enhance biological degradation, please consider applying EZVI only in the zones where the TCE concentrations exceed 10% of solubility. At Hangar K, EZVI was applied in zones where TCE concentrations were ≥200 ppm.

Response: There are only two locations at CRHE with TCE concentrations near 10% TCE solubility (110,000 µg/L): DPT0072 from 36 to 40 ft BLS (160,000 µg/L) and DPT0134 from 36 to 40 ft BLS (100,000 µg/L); therefore, adjusting the treatment area to encompass the 10% solubility would create a small treatment area. The footprint for EZVI injection was agreed upon in the Step 1 to evaluate the implementation in the area where TCE is greater than 1% solubility. A reduction of the vertical treatment interval, currently from 20 to 50 ft BLS, can be evaluated during the design phase, by utilizing the DPT sampling data to reduce the vertical treatment interval.

14. Alternative 3B, 10X NADC Plume EZVI and Bioremediation with Recirculation: Slide 63 (new slide 90) – Similar to the note regarding Slide 57: At Hangar K, the HCP was treated using emulsified vegetable oil and lactate. Early indications are that the dissolved plume's decay has accelerated through the combination of SZ and HCP treatment, but it does not appear that NADC for all chlorinated VOCs will be reached within 5 years.

Response: The calculation of time to reach NADC for each CVOC using enhanced bioremediation was based on MLP dechlorination rates and we feel this is an appropriate approximation.

15. Technology Comparison and Technology Cost Comparisons – For SZ Alternatives 1A (air sparging) and 2A (emulsified oil), we are concerned that the lack of documented performance history for these technologies for DNAPL treatment may result in some understatement of both the estimated time to achieve CAO and the treatment cost. Treatment success at CRHE will largely depend on the amount of DNAPL present and how

efficiently that DNAPL mass is removed or controlled. Inclusion of applicable site or study information would be very helpful.

Response: See responses to comment #2 and #6 above.

TetraTech Comments:

Tetra Tech generally concurs with the information presented in the Contractor's Road Heavy Equipment (CRHE) Area Step 2 Engineering Evaluation (EE) – Hot Spot 1 advanced data package (ADP), except where noted within the following comments:

Step 2 ADP

1. Slide 16/17 – The inferred source zone is not indicated on the cross section, as it is on the plan view drawings. We suggest that the source zone interpretation also be applied to the cross sections within the Step 2 EE.

Response: The inferred source zone was added to the cross sections in the ADP (Figures 4 and 5).

2. Slide 18/19 (new slide 20/21) – The mass values deviate significantly from what was presented in the Step 1 EE. We suggest providing information to what influenced the increase in calculated mass from the Step 1 to 2 EE, the Geosyntec presentation response to Tetra Tech's Step 1 EE comment regarding mass does not parallel what is provided in the Step 2 EE.

Response: The mass estimates from the Step 1 ADP have been added to the ADP. For the source zone, the TCE mass estimate was modified from what was presented in the Step 1 because the area increased (see note 2 of the table – increase from 1,742 sq ft to 3,049 sq ft). The mass of TCE in the source zone from the Step 1 was approximately 26 lbs (using the hand calculated values to be conservative) and the revised mass of TCE presented in the Step 2 is 45 lbs. The cDCE and VC mass estimates were not presented for the source area in the Step 1 ADP.

The mass estimate presented for the 10XNADC area is the same as the mass estimate that was presented in the revised Step 1 for cDCE and VC (using the hand calculated values, which are the most conservative). The TCE mass estimate for the 10XNADC area was modified because the area of the source zone increased. In the Step 1, the mass estimates

were presented as "rings" and not totals for the areas, so the 10XNADC estimate did not include the source zone TCE mass.

3. Slide 28 (new slide 33) – Due to the nature of air sparging (AS) near occupied buildings, an ambient and soil vapor extraction (SVE) air sampling program should be integrated into the conceptual design (this comment is relevant for all AS alternatives). Please include this consideration and costs into the Step 2 EE.

Response: We agree that an ambient air sparging program should be implemented, if AS/SVE is selected and implemented. A detailed description of the sampling plan will be provided in the Step 3 and costs are minimal and are considered to be included in the O&M cost provided.

4. Slide 30 (new slide 36) – While the horizontal layout for the AS network is very conservative, it does not appear the vertical distribution of AS points is tailored to site conditions. In the source zone area near DPT0200, we suggest installing shallower AS wells or nesting wells to address the source zone at least 20 feet above the proposed screen intervals in order to provide a more focused approach (this comment is relevant for all source zone AS alternatives).

Response: We feel that the current vertical layout is adequate for a conceptual design and the use of nested wells would be considered as part of the design, if AS/SVE is selected.

5. Slide 27/32/35 (new slide 31/39/46) – Is there an assumed vacuum to be applied at the horizontal SVE points that was used for SVE sizing? We also suggest including a variable frequency drive on the blower/fan in order to dial in the blower to site conditions and/or perform SVE pilot testing, if alternatives with SVE are selected. Additionally, it is not clear in the details if the chambers shown on Slide 32 contain valve boxes/vaults in order to individually control the chambers. Please clarify.

Response: It is anticipated that the SVE system will include a blower capable of greater than 360 scfm and operate at approximately 20-inches of water to minimize the extraction of water (likely a 15 Hp Ametek Rotron Regenerative Blower). We agree that a variable frequency drive blower should be considered during the design phase. A typical detail is provided for an SVE chamber; the details about operation of the chambers will be decided during the design, if AS/SVE is selected. Geosyntec has designed SVE chambers with remote valving (typical at drycleaners where the chambers are installed beneath the

drycleaner slab) and with valving within vault boxes. The specifics of the valving orientation associated with the SVE chambers is a design detail.

6. Slide 38 (new slide 51) – Based on the presented ten times Natural Attenuation Default Criteria (10X NADC) plume, it is not clear what the AS wells to the western part of the cross section are treating and this interpretation does not match what is shown in plan view. We suggest revising the cross section to provide a closer correlation to the center line of the source zone/10X NADC plume (global comment).

Response: The 10XNADC plume on the plan view is drawn by contouring the data on the west side of the building, which the cross section does not include. The 10XNADC contour has been updated on the cross sections in the presentation.

7. Slide 41 (new slide 56)– A pre-packaged SVE enclosure may be more appropriate and less expensive than a mobile trailer. We suggest evaluating the use of an enclosure instead of a trailer.

Response: If AS/SVE is selected as the remedial alternative, these suggestions will be taken into consideration with NASA during the design phase.

8. Slide 45/60/56/61 (new slide 34/74/82/88) – Do the alternatives assume treatment of the entire area that is within the blue rectangle? If this is the case, the volumes used to calculate remedial additives may be substantially overestimated for treatment of the applicable plume interval. Please clarify.

Response: AS/SVE will treat the entire interval from 20 ft to 50 ft; therefore, to compare the same treatment volume for all three technologies, the treatment interval for both enhanced bioremediation and EZVI was expanded to 20 to 50 ft BLS.

9. Slide 49 (new slide 72) – The passive vents, as currently placed, do not clearly appear to provide protection of methane accumulation underneath the structure. Furthermore, will the venting cause secondary issues such as odor? We recommend the methane venting approach be revised.

Response: We feel that the passive venting system is adequate for a Step 2 evaluation. The vents provide a path for any methane produced to be discharged at the roof level to the atmosphere. During the design phase, an evaluation would be performed if active venting is recommended (could add a radon type electric or solar fan, or a wind turbine to the vent

stack to make the system active). It is unlikely that the passive venting will cause any secondary issues. The approach proposed has been implemented at a number of bioremediation project sites in Florida without secondary odor issues.

10. Slide 54/59 (new slide 78/86) – The injection radius of influence (ROI) of 3 feet is very conservative and may bias the costs of emulsified zero-valent iron (EZVI) alternatives. We suggest the spacing be revisited.

Response: The costing was updated to evaluate a non-conservative 6 ft ROI and is included in the response to Jacobs' comment #11 above.

11. Slide 71 (new slide 104) – Prior to concurring with the selection of bioremediation, we suggest that the EZVI alternatives be revisited per Comment 10. Although there is limited case study literature available regarding the efficacy of bioremediation of dense non-aqueous-phase liquid (DNAPL), the limitations of bioremediation may be understated in this ADP. Additionally, we suggest screening bioremediation substrates that contain ZVI as a supplement to the bioremediation alternatives.

Response: The costing was revised using a 6 ft ROI and is included in the response to Jacob's comment #11 above. See comment #6 for discussion of bioremediation in DNAPL source zones. We feel that emulsified oil is the best substrate for implementing bioremediation at this site.

12. Cost Estimate, Global Comment – The cost estimates do not clearly identify if direct or burdened costs are presented in the Step 2 EE. Please clarify.

Response: The cost estimates are fully burdened.

13. Cost Estimate, T-1 – The costs presented for a SVE system are significantly higher than what would be expected, considering the size of the system. Please clarify the $50,000 line item.

Response: The cost for the SVE system was based off of vendor provided unit pricing (from Product Recovery Management) that includes the equipment trailer, blower, moisture separator with pump-out and controls, liquid-phase carbon, telemetry, delivery and start-up assistance. The estimated cost for the system, since the components have not been specifically selected was between $40,000 and $50,000, so the conservative $50,000 cost was utilized.

14. Cost Estimate, T-1/T-2 – The electrical line installation line item cost appears low. Please revisit.

Response: The cost for the electric line installation was scaled from the actual cost for the electric line installation performed in 2012 at VPF. The work at VPF included the installation of 50 feet of electric line and was approximately $5,000. Therefore, we felt that the identified line item cost was a conservative estimate for this Step 2, which assumed the installation of 30 ft of electric line.

15. Description of Alternatives, Page 5 – The stated 60% oil substrate and 1:20 dilution results in an injection concentration of approximately 3%. Considering groundwater dilution and the suspected presence of DNAPL, the substrate dosage concentrations appear low. Please provide rationale for the bioremediation dosing.

Response: The 1:20 dilution is within the recommend range of dilution from the vendor, so that the emulsion remains stable. See response to Jacob's comment #8 above for dosing information.

APPENDIX E

STEP 3 FOR HS1
ENGINEERING EVALUATION ADP
(electronic copy only)

Geosyntec consultants

Contractor's Road Heavy Equipment (CRHE) Area (SWMU055)

Step 3 Engineering Evaluation – Hot Spot 1 IMWP

May 2014

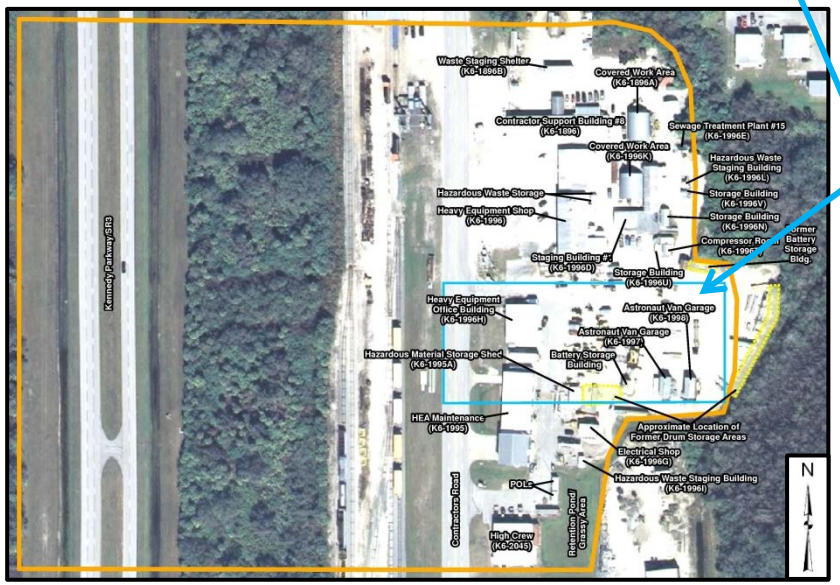
Geosyntec consultants

Presentation Outline

- Site background
- Corrective Action Objective
- Bioremediation design details
- Performance monitoring
- Test consensus

Site Background
Site Overview

- HS1 features:
  - About 3 acres
  - Paved and gravel
  - Underground utility corridor east of Contractor's Road
  - Thick road base in northern part of HS1
  - Overall 10xNADC Plume runs beneath K6-1996H and Contractor's Road
  - Heavy equipment (up to 300,000 lbs) transported and stored in the area



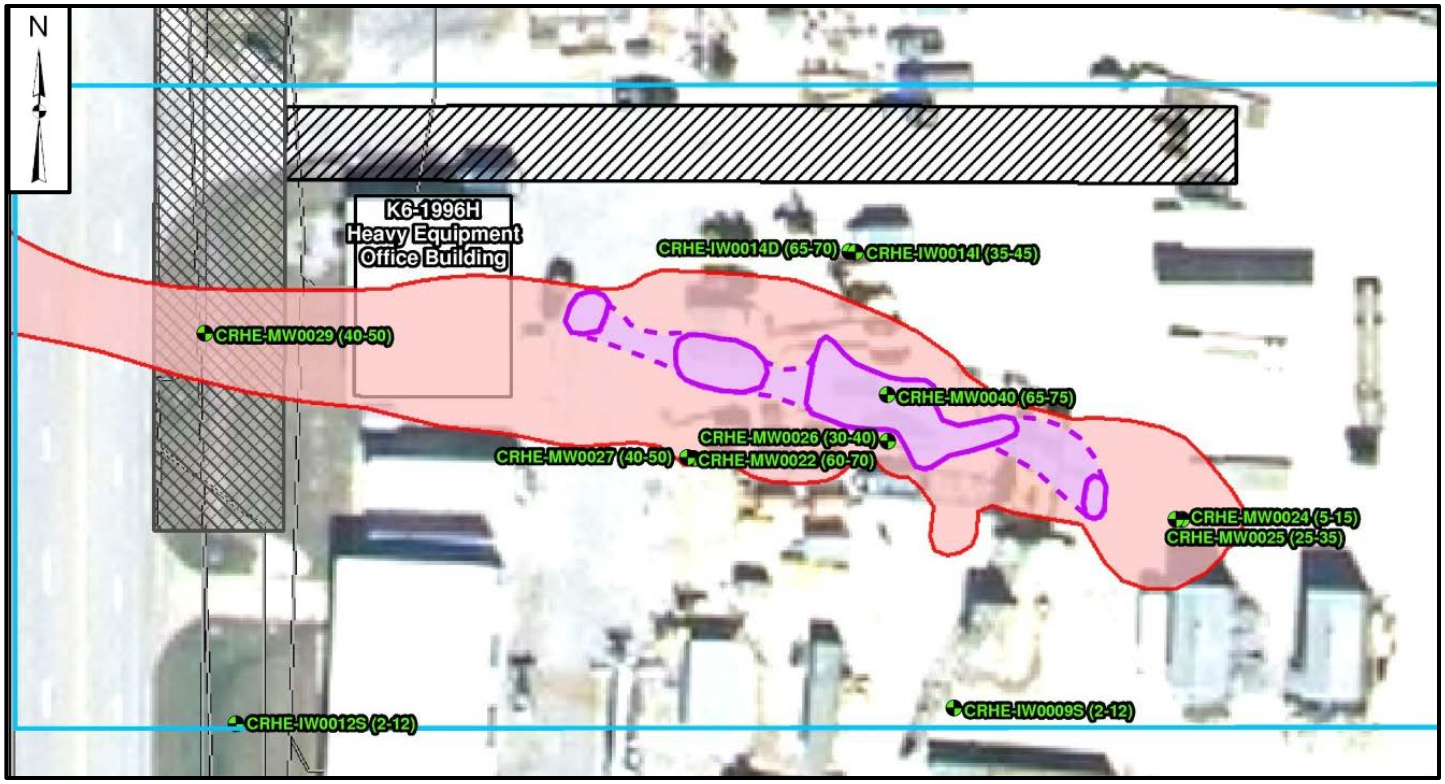
Hot Spot 1 Area

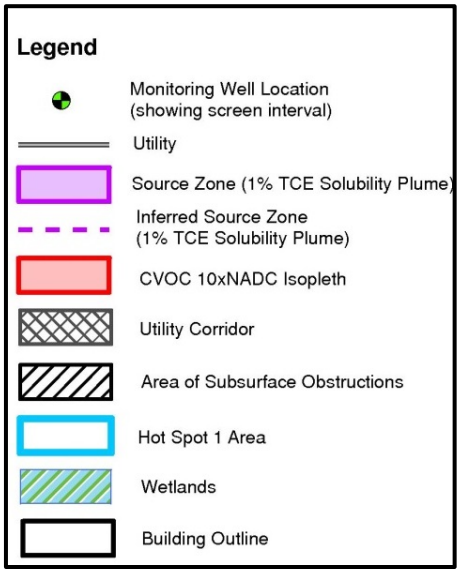
Geosyntec consultants

Site Background

- 1997-1999: RFI (HSW, Inc.)
  - CVOC identified in groundwater above GCTLs
- 2000: Corrective Measures Study (CMS) (HSW, Inc.)
  - LTM selected remedy
- 2005 – 2009: site incorporated into VAB LTM program
- 2010: discontinued LTM until assessment is complete
- 2009 – 2013: supplemental site assessment
- 2013 December: Hot Spot 1 Step 1 EE
  - Delineation of Source Zone (TCE greater than 11,000 µg/L – 1% solubility) and CVOC 10xNADC plumes complete
  - recommended evaluation of bioremediation, emulsified zero valent iron (EZVI), and air sparge/soil vapor extraction (AS/SVE)
- 2014 February: Hot Spot 1 Step 2 EE
  - Bioremediation in SZ selected for IM

Site Background
Overall 10xNADC Plume and Source Zone





- 10xNADC Plume is the area with TCE, cDCE, and VC greater than 10xNADC
- Inferred Source Zone area: 0.07 acres (3,050 ft^2)

Response to Comments

- Jacobs ADP Comment #2: Slide 5 (new slide 5) – Shows the SZ Area and 10x NADC exceedances area. Since this figure was based upon the DPT results presented in Slide 9, consider having the information on Slide 9 precede Slide 5.

- *Response: The location of this slide is to help aid in the discussion of treatment intervals and monitoring depth, the slide was not intended to be provided as background information.*

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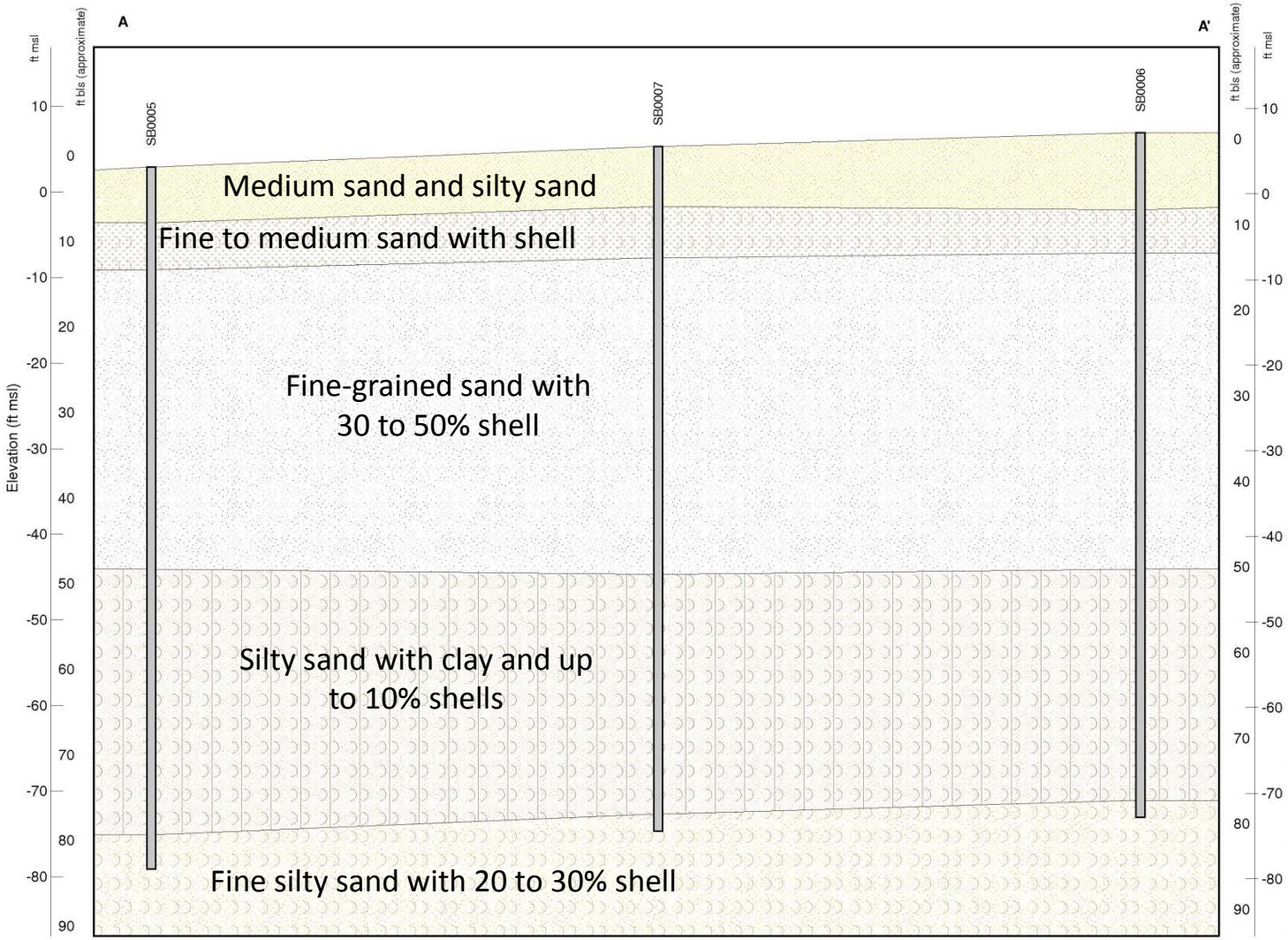
Site Background Lithology



Response to Comments

- TT IMWP Comment #2: Section 2.7 – It would be helpful in evaluating biological conditions if chloride data at the injection depth intervals is provided in this section. Overall, this section was very helpful in supporting the appropriateness of bioremediation at CRHE.

- *Response: Chloride data was not collected at this site. During the data gap sampling in December 2013, the salinity from monitoring wells MW0025 (0.77%) and MW0029 (1.5%), indicate that chloride should not affect Dhc. Additionally, ethene and ethane were detected at the site and that suggests that complete dechlorination is occurring.*

Corrective Action Objective

- Corrective Action Objective to reduce CVOC concentrations to less than GCTLs using a treatment train approach
- IM objectives
  - to evaluate if bioremediation is effective at treating TCE concentrations that are greater than 1% of solubility (probable dense non-aqueous phase liquid)
  - to obtain data to evaluate the implementation of bioremediation in a larger treatment area

Response to Comments

- TT IMWP Comment #1: Section 1.3 – Please verify if the objective the IM is to evaluate the effectiveness of bioremediation or to treat the plume to an endpoint (e.g., NADC, transition to MNA, etc.). As currently stated, the IM objectives appear worded towards a pilot study rather than an IM.

- *Response: The IM objective is as stated in the ADP and the IMWP and is worded this way because the IM is focused on the SZ (located within a larger plume).*

Response to Comments

- TT ADP Comment #1: Slide 7 (new slide 9) – Please see IMWP comment regarding to IM objectives.

- *Response: See response to Tetra Tech IMWP comment #1.*

Summary of Bioremediation

- Treatment area
  - SZ where TCE concentrations > 11,000 µg/L
  - Vertical treatment interval includes interval with CVOCs > 10xNADC (~15 to 50 ft BLS)
- Installation of eight monitoring wells
- DPT injection of 71 drums of SRS®-SD diluted 1:80 with potable water from on-site fire hydrant
- Semi-annual performance and UIC monitoring
- DPT groundwater sampling event post-injection (1 to 2 years)
  - To provide more robust understanding of CVOC concentrations
- *Dhc* and *vcrA* concentrations indicate that bioaugmentation not necessary
  - Information for optional bioaugmentation included in IMWP and UIC to prevent amendment to work plan, if site conditions change

Response to Comments

- TT General Comment #2: Since CRHE is an active facility, it may be appropriate to provide a site layout/staging plan to provide locations where substrate, equipment, and tank staging are planned to be placed.

- *Response: We concur and believe this should be provided in the implementation work plan.*

Response to Comments

- TT IMWP Comment #3: Section 3.1 – The inherent benefit of bioaugmenting may overweigh a "wait and see" approach. For the small capital expenditure, enhanced dechlorination may occur while biostimulation conditions are at their best and the appropriate microbial populations are present. We suggest adding the proposed KB-1 into the initial injection design to account for any uncertainty with the dechlorination potential of the indigenous populations. Alternately, microcosm testing prior to implementation of the IM may be beneficial to confirm full dechlorination and kinetics with the indigenous populations versus KB-1 bioaugmentation.

- *Response: Based upon our sampling results (presence of ethene and ethane and presence of Dhc and vcrA), we do not believe microcosm testing is necessary, since the results indicate that complete reductive dechlorination is occurring. We agree that bioaugmentation would be beneficial, but is not necessary. We propose that the decision to bioaugment be made based on the baseline sampling results. Groundwater samples will be analyzed for Dhc and vcrA from two proposed monitoring wells and if the Dhc and vcrA concentration is less than 10^6 gene copies per liter, bioaugmentation will be performed.*

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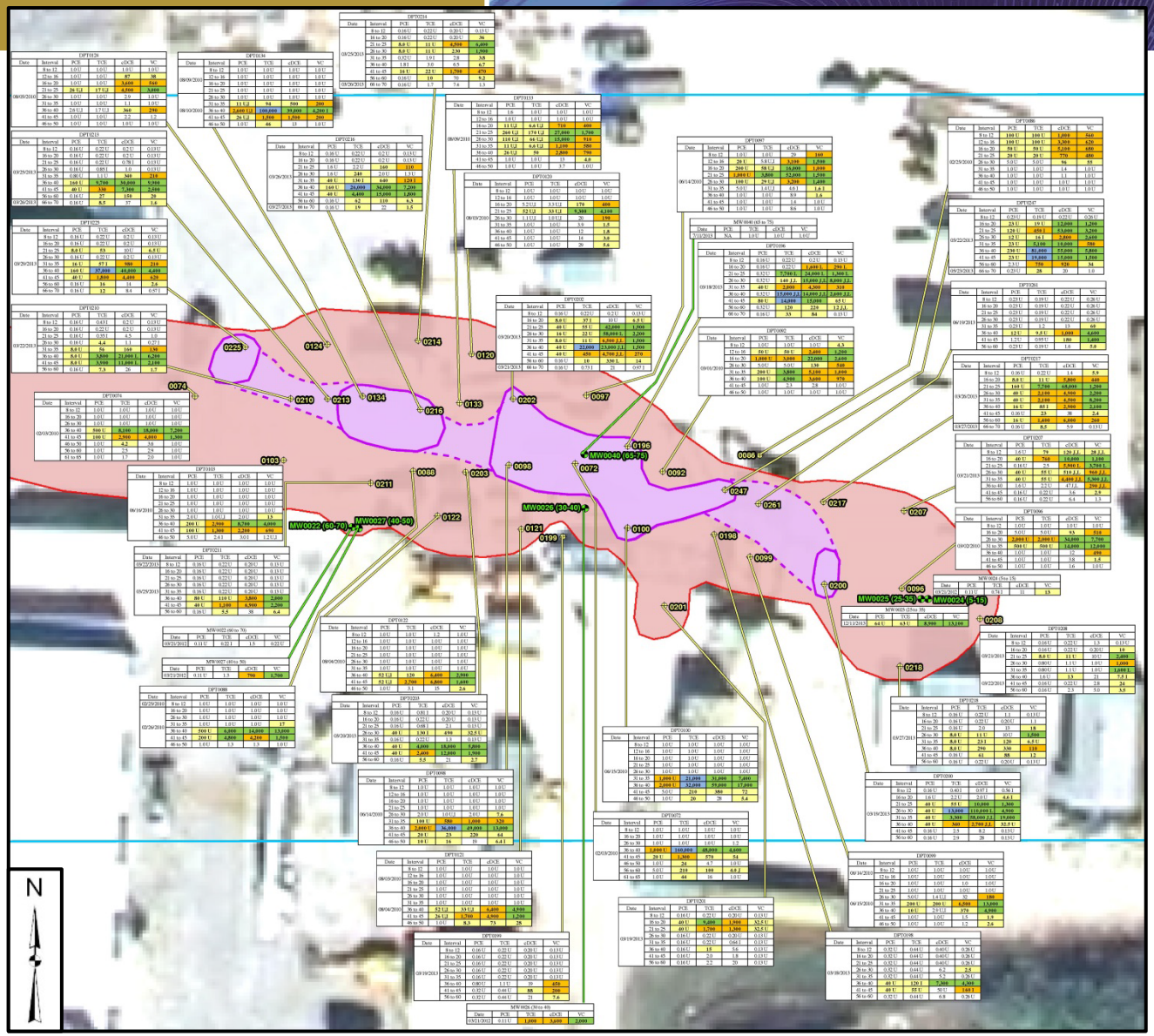
Select DPT Groundwater Sampling Results



Legend

- DPT Sampling Location
- Monitoring Well Location (showing screen interval)
- Inferred Source Zone (1% TCE Solubility Plume)
- Source Zone (1% TCE Solubility Plume)
- CVOC 10xNADC Isopleth
- Hot Spot 1 Area

Figure 2-9

Amendment Selection

- SRS®-SD from Terra Systems, Inc.
  - FDEP-approved substrate
  - 60% food grade soybean oil (slow release electron donor)
  - 4 to 7% potassium lactate (fast release electron donor)
  - 5 to 15% emulsifiers (proprietary) and nutrients (yeast extract, nitrogen and phosphorous to support microbial growth)
  - < 1% (minimum of 250 µg/L) vitamin B12 (important micronutrient for *Dhc*)
  - 6 to 8 grams per liter of sodium bicarbonate (to aid in buffering)
  - balance of water

Response to Comments

- Jacobs IMWP Comment #3: Section 3 – Does SRS®-SD contain sodium bicarbonate or is the sodium bicarbonate an addition in the field? The SRS®-SD product information provided in Appendix C does not list sodium bicarbonate as an ingredient. If it is a field addition, and given the large amounts of water contemplated, is sodium bicarbonate addition at 6-8 g/L as a buffer necessary? We assume that the make-up and chase water will have a near neutral pH.

- *Response: SRS®-SD does not normally contain sodium bicarbonate, but it will be added by the manufacturer during the manufacturing process. The addition of the sodium bicarbonate is to provide additional buffering capacity to the aquifer to reduce the pH reduction that can occur as the substrate ferments while in the aquifer. There was no additional cost for the addition of sodium bicarbonate to the SRS®-SD.*

Response to Comments

- TT IMWP Comment #4: Section 3.2 – It is our understanding that SRS-B contains ingredients for aquifer buffering (based on Terra Systems' website). Please confirm if sodium bicarbonate is in the costed product (SRS-SD) or if a custom formulation was derived for CRHE. Will any additives result in secondary UIC issues (e.g., addition of sodium bicarbonate forming sodium salts)?

- *Response: There was no additional cost for adding sodium bicarbonate to the SDS®-SD. SRS®-B is formulated for low pH aquifers and has 5 to 15% buffer. Per the FDEP Acceptance Letter provided in Appendix D of the IMWP, UIC monitoring associated with the injection of SRS®-SD requires monitoring of sodium, total dissolved solids, and total recoverable petroleum hydrocarbons. Since the UIC monitoring includes sodium, there should be no secondary UIC issues. Also, by approximating the resulting concentration of sodium in the 305,000 gallons of pore volume, the concentration of sodium in the aquifer due to the addition to 8 g/L of sodium bicarbonate to the SRS®-SD is less than 0.03 g/L, and the KSC Upper Range of Background for sodium is 15 g/L (FDEP GCTL is 0.16 g/L).*

Response to Comments

- Jacobs ADP Comment #1: General – Please discuss the substitution of SRS®-SD for EOS®, and the flow-down changes (such as dilution), plus any other factors that were notably different between Step 2 assumptions and Step 3 design. This will provide the Remediation Program with clear documentation of the reason for the change in capital cost. We do not disagree with the selection of SRS®-SD, but since EOS® was presumed to yield representative costing for whatever amendment was developed in Step 3 and there was a notable increase in cost, the reason for selection should be described.

Response to Comments

- *Response: The changes between the Step 2 and the Step 3 EE included the following: (i) modification of the electron donor from EOS® to SRS®-SD; (ii) increasing the dosing of the electron donor from 0.5% to 0.7%;(iii) the method of calculating the pore volume of the treatment area (considering overlap and drift outside the treatment area); and (iv) an increase in number of DPT sampling days from three to five. A description of our rationale for these modifications is provided below.*

  The decision to substitute SRS®-SD for EOS® stemmed from our experience with both products. Over the past couple of years, the EOS® products have arrived at our sites with a pH that was less than 6, which is below neutral and can influence the pH of the aquifer. SRS®-SD has a neutral pH and we have had positive results.

  The SRS®-SD costing provided was their estimated 2015 costing ($940/drum), since NASA is anticipating this IM will not be implemented until 2015 (The estimated 2014 pricing is ~$882/drum). The cost for EOS provided in the Step 2 EE was an anticipated 2014 cost and they were not able to provide us an estimated cost for 2015. This change affected the cost because the cost of a drum of SRS®-SD is approximately $940/drum and the cost of a drum of EOS® was approximately $730/drum.

  The decision to increase the electron donor dosing from 0.5% to 0.7% was based on comments received during the Step 2 EE that were concerned that the dosing of 0.5% was low. As stated in the IMWP, Geosyntec generally recommends a dosing of 0.5% to 1% of pore volume (with oil); therefore, the dosing was increased to 0.7%. This change affected the cost because the volume of EVO increased. The cost increase is discussed below.

  During the Step 2 EE, the treatment volume was estimated by using the area of the SZ times the treatment interval (3,050 square feet x 30 feet). For the IMWP, since the treatment interval varied by location, the pore volume was calculated for each injection location (assuming an 8-foot radius of influence and a specific treatment interval), and then summed to provide a total treatment volume. This approach more accurately reflects the total treatment volume, since it includes the overlapping of the radius of influence (in addition to the treatment of some areas outside the specific SZ iso-contour). The change in this calculation increased the total treatment volume (from ~ 200,000 gallons to 300,000 gallons), which increased the amount of EVO solution required and increased the number of days that injections would occur.

Response to Comments

- *Response (cont.):*

  The cost from the Step 2 EE and the Step 3 EE were compared based on the cost per cubic yard treated. A summary of the cost is provided below:

  - *Step 2 EE cost*
    - *~$129/cy based on total cost for 3 years ($437,000) and cubic yards treated (3,390 cy)*
    - *~$164/cy based on total cost for 5 years ($557,000) and cubic yards treated (3,390 cy)*
  - *Step 3 EE cost*
    - *~$145/cy based on total cost for 3 years ($626,500) and cubic yards treated (4,317 cy)*
    - *~$164/cy based on total cost for 5 years ($708,700) and cubic yards treated (4,317 cy)*
  - *The costs summarized above show that from the Step 2 EE to the Step 3 EE, the treatment volume has increased, but that the cost per cubic yard is similar.*

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Bioremediation Layout Plan View

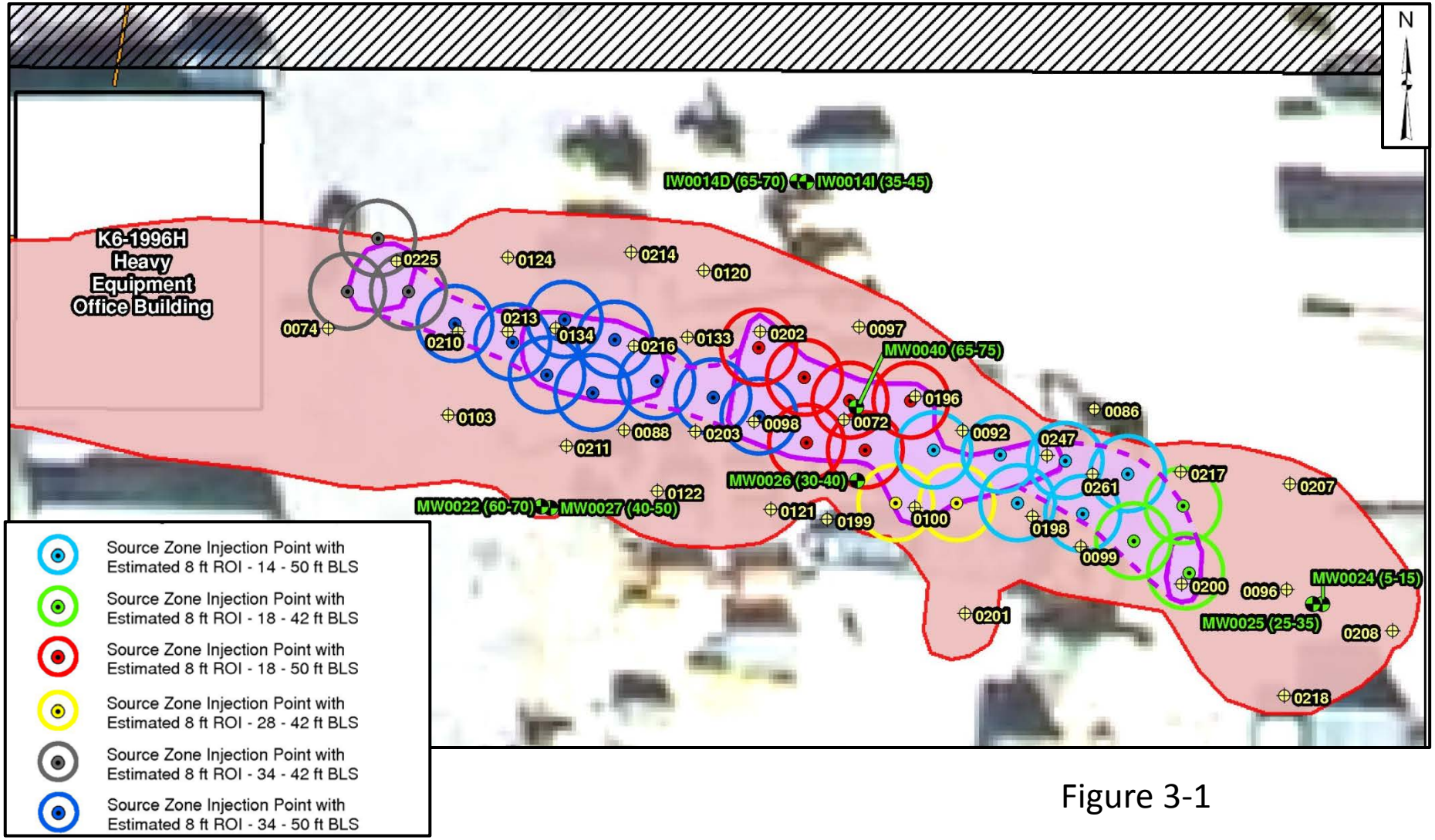

Figure 3-1

Response to Comments

- TT ADP Comments #2: Slide 11 (new slide 23) – Suggest numbering DPT points and providing a reference injection calculation (See IMWP table)

- *Response: The DPT injection locations can be numbered as part of the IM Implementation Work Plan.*

Response to Comments

- Jacobs IMWP Comment #9: Section 4 – MW0026 is located along the southern edge of the SZ treatment area. Due to its proximity to the treatment area, consider abandoning and re-installing MW0026 due to preferential pathway concerns and potential daylighting issues.

- *Response: If the injection technique proposed in the IMWP is utilized, we do not anticipate daylighting issues at monitoring well MW0026 (no daylighting issues occurred at LC34 Hot Spot 1 where we had monitoring wells [with secure caps] within 2 feet of injection locations). If an alternative injection vendor/technique is ultimately utilized, the abandonment of the well should be considered in the IM Implementation Work Plan.*

Injection Interval Rationale

- Based on DPT groundwater sampling data
  - Injection interval expanded to include a couple of feet above and below sample interval
  - If no sample collected from 46 to 50 ft BLS, injection interval extended to 50 ft BLS
- 18 to 42 ft BLS for the injection locations around DPT0200
  - DPT0200 and DPT0217 - 10xNADC CVOC exceedances from 21 to 40 ft BLS
- 14 to 50 ft BLS for the injection locations around DPT0247
  - DPT0247 - 10xNADC CVOC exceedances from 16 to 45 ft BLS (no sample collected below 45 ft BLS)
- 18 to 50 ft BLS for the injection locations around DPT0196, DPT0072, and DPT0202
  - DPT0196 - 10xNADC CVOC exceedances from 21 to 45 ft BLS (no sample below 45 ft BLS)
- 28 to 42 ft BLS for the injection locations around DPT0100
  - DPT0100 - 10xNADC CVOC exceedances from 31 to 40 ft BLS
- 34 to 50 ft BLS for the injection locations around DPT0098, DPT0216, DPT0134
  - DPT0216 - 10xNADC exceedances from 36 to 45 ft BLS (no sample collected below 45 ft)
- 34 to 42 ft BLS for the injection locations around DPT0225
  - DPT0225 - 10XNADC CVOC exceedances from 36 to 40 ft BLS

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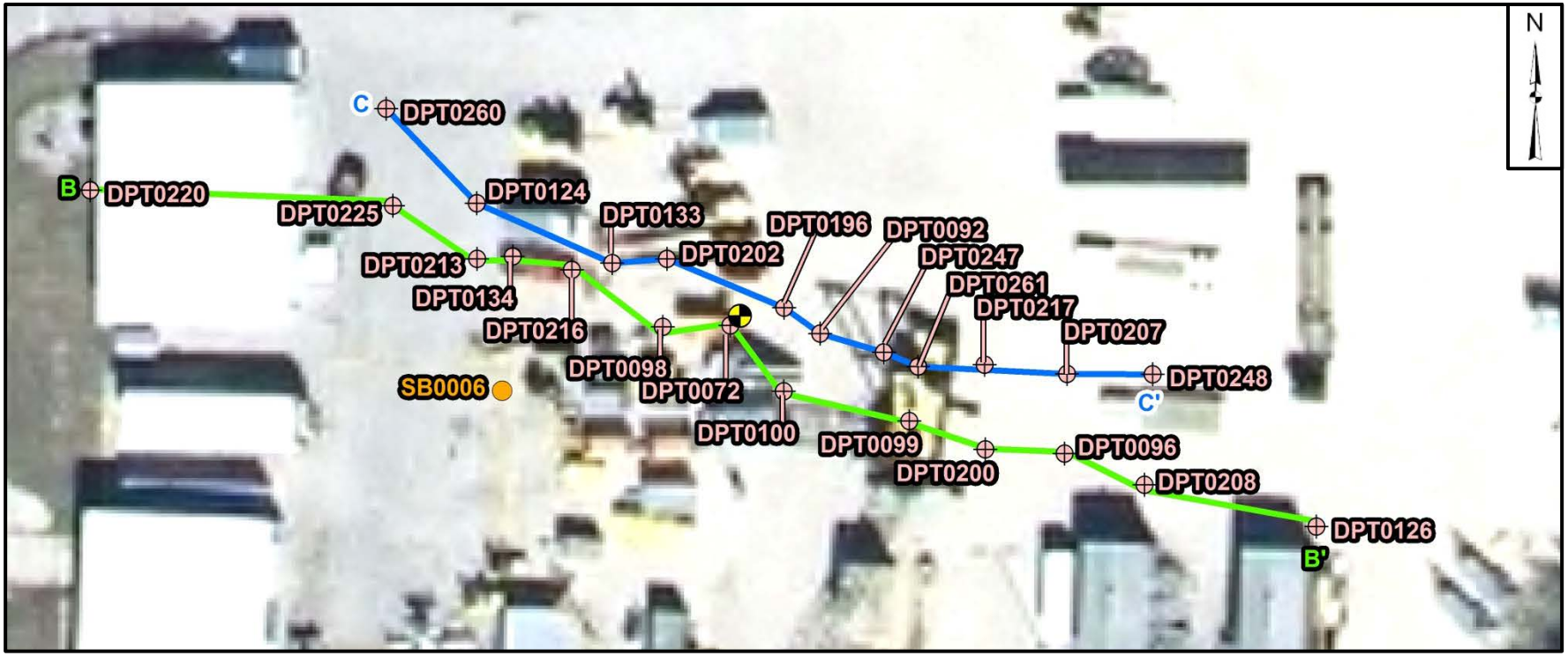
Bioremediation Layout Cross Section Plan View



Legend

- Soil Boring Location
- DPT Sampling Location
- B-B' Transect
- C-C' Transect

Bioremediation Layout Cross Section B-B′

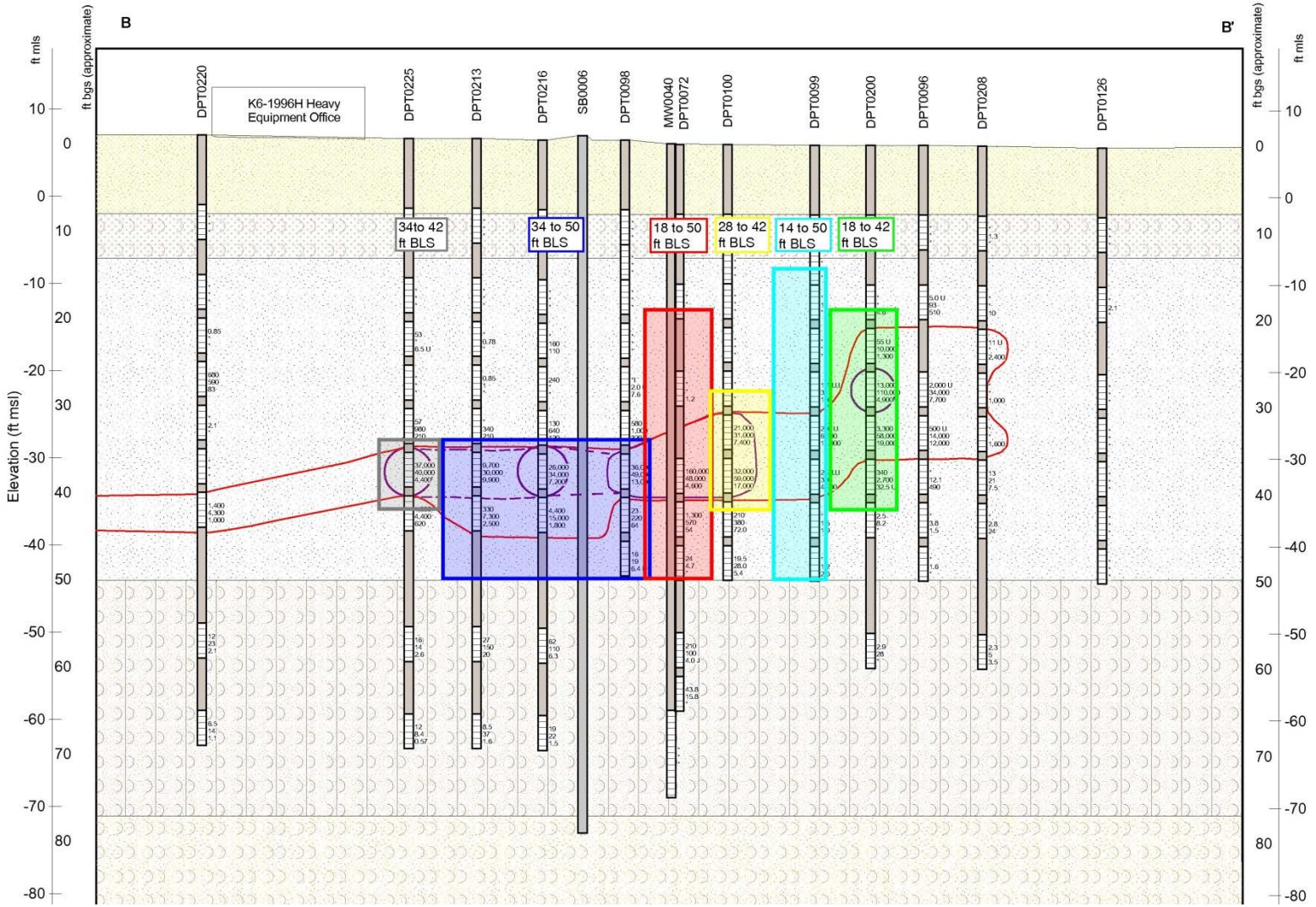


Figure 3-2

Geosyntec consultants

Bioremediation Layout Cross Section C-C′

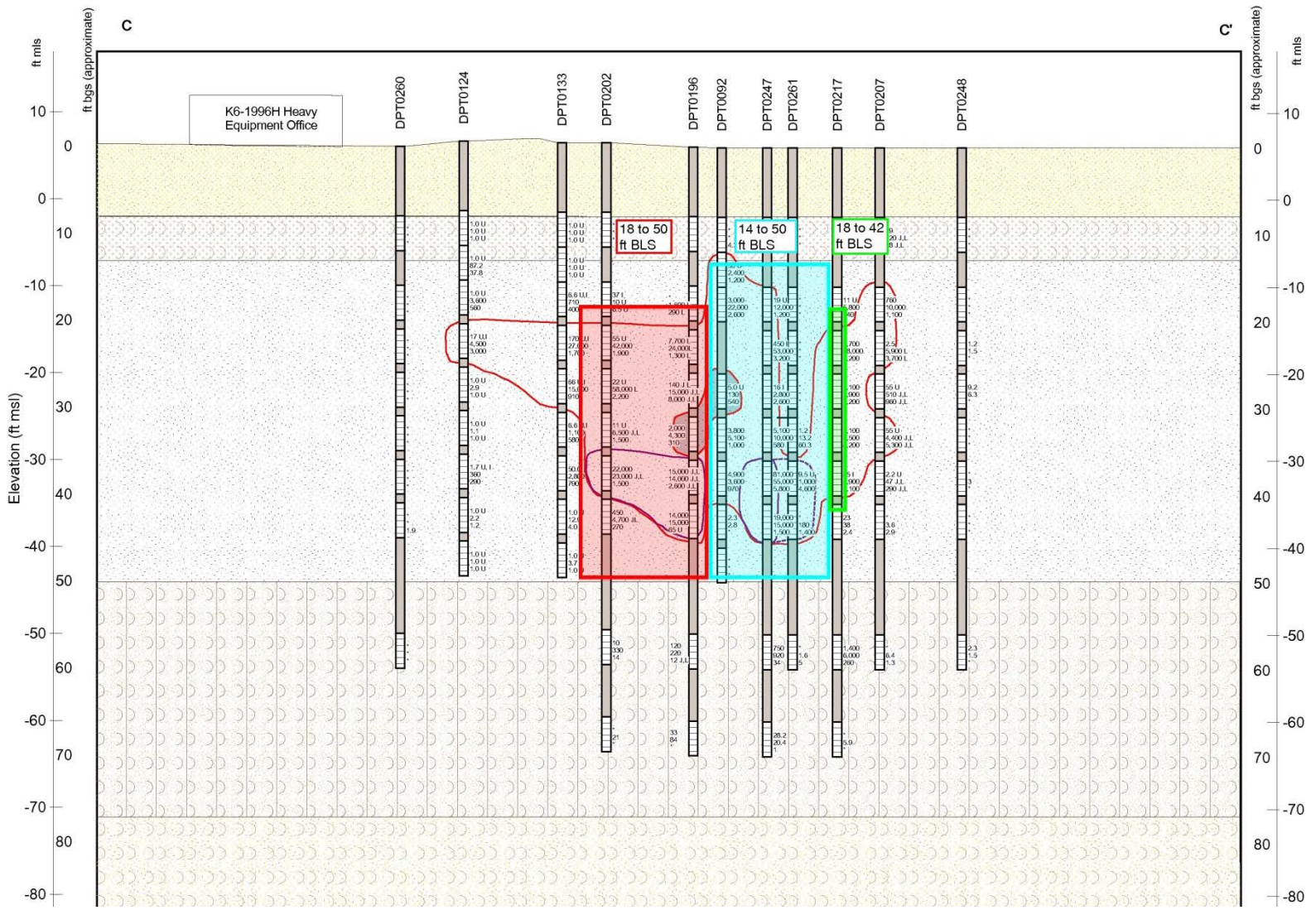


Figure 3-3

Response to Comments

- Jacobs ADP Comment #3: Slide 14/15 (new slide 27/28) – Treatment depths on Figures 3-2 and 3-3 (slides 14 and 15) are presumably indicated by the color blocks, but there is no legend or key to that effect. Recommend adding a call-out or legend.

- *Response: A printing error caused the injection intervals to not be presented on Figures 3-2 and Figures 3-3. The figures are presented correctly in the ADP, and have been reprinted and provided to the Team.*

Response to Comments

- TT ADP Comment #3: Slide 14/15 (new slide 27/28) – Figures 3-2 and 3-3 do not match these figures. Please revise, as commented in IMWP.

- *Response: See response to Jacob's ADP comment #3.*

Response to Comments

- TT IMWP Comment #8: Figure 3-2/3-3 – It is not clear what this figure is presenting, as injection locations and intervals are not depicted. Please revise showing applicable injection locations and treatment interval within the cross section. See Slides 14 and 15 of the Step 3 EE.

- *Response: See response to Jacob's ADP comment #3.*

Electron Donor Dosing Appendix E IMWP

- 71 drums of SRS®-SD diluted 1:80
  - ~298,000 gallons of SRS®-SD solution
  - Water will be treated with dechlorinator and made anaerobic by adding sodium sulfite, if necessary
- 50 gallons chase water per injection interval
  - ~3,250 gallons of chase water

Treatment Interval	Number of Injection Points	Drums of SRS-SD (52.5 gal per drum; 60% EVO)	Volume of Diluted SRS®-SD Solution	Volume of Diluted SRS®-SD Solution per Location
(ft BLS)	N/A	N/A	(gal)	(gal)
14 to 50	6	22	92,400	15,400
18 to 42	3	8	33,600	11,200
18 to 50	6	20	84,000	14,000
28 to 42	2	3	12,600	6,300
34 to 42	3	3	12,600	4,200
24 to 50	9	15	63,000	7,000
Total	**29**	**71**	**298,200**	**---**

Response to Comments

- TT IMWP Comment #6: Section 3.3.3 - Were costs and time required for conditioning dilution and chase water included in the design? For example, how many and what size tanks will be required and how much dechlorinator and oxygen scavenger will be required.

- *Response: Yes, time was considered; however, it is minimal when using the sodium sulfite as presented in the IMWP. The number and size of tanks is an Implementation Work Plan Detail.*

  Note that for the evaluation in the IMWP, the mixing was based upon the vendor using 250-gal mixing tanks as described in Section 3.3.3. As described in Section 3.3.3 of the IMWP, 0.24 g/gal of sodium sulfite would be added (calculations included in Appendix E). The amount of dechlorinator added would change based on product (or natural conditioning may be feasible).

Response to Comments

- Jacobs ADP Comment #4: Slide 16 (new slide 32) – Please include the assumptions used to generate the volume estimates in the chart on Slide 16 (porosity, pore space saturation, ROI, vertical thickness, etc.). We found these in Appendix E of the IMWP.

- *Response: Slide 16 is a summary of the information presented in Appendix E of the IMWP. A reference to Appendix E has been added to the slide, since the ADP and IMWP are meant to be complimentary documents.*

Response to Comments

- Jacobs IMWP Comment #1: Section 3 - Agree with the injection locations and treatment intervals. Expanding the treatment zone where there was no 46-50 ft bls sample is a good, conservative approach.

  Please include a preliminary injection details table (understanding that this will be finalized in the implementation work plan). This table should include injection location identification, GPS coordinates of the injection location, injection depths/lifts, and volume of SRS®-SD/water solution per lift. The table should be inserted into Section 3 of the IMWP.

- *Response: A table detailing the injection details is provided in Appendix E. This table (Electron Donor Dosing and Injection Volume Calculations) provides details for the injection locations based on depth interval. The information provided includes the following: (i) treatment interval; (ii) the number of 2-foot injection lifts within this interval; and (iii) the volume of solution per lift. A table or figure providing the injection location GPS coordinates should be included in the IM Implementation Work Plan. To provide maximum flexibility to NASA for implementation, the injection details were kept generic such that the A&E/vendor implementing the project has the ability to tailor the implementation to their technical strategy/vendor equipment.*

Response to Comments

Appendix E. Electron Donor Dosing and Injection Volume Calculations

Treatment Interval (ft BLS)	Number of Injection Points	Porosity	Injection Point Area (8 ft ROI) $\pi*(ROI)^2$ (ft^2)	Injection Interval (feet)	Number of 2-foot Injection Intervals	Volume of Injection Area Area * Injection interval (ft^3)	Pore Volume of Injection Area Volume * Porosity * 7.480519 gal/ft^3 (gal)	Volume of SRS-SD Based on Filling 0.7% Pore Volume Pore Volume * 0.007 (gal)	Drums of SRS-SD (52.5 gal per drum; 60% EVO) Volume SRS-SD / 52.5 gal/ 0.6	Volume of SRS-SD Solution (1:80 Dilution) Volume SRS-SD * 80 (gal)	Volume of SRS-SD Solution per Location Volume SRS-SD Solution / Number of Injection Points (gal)	Volume SRS-SD Solution per Injection Interval Volume of SRS-SD Solution per Location / Number of 2-foot Injection Intervals (gal)
14 to 50	6	0.3	201	36	18	43,429	97,462	682	22	92,400	15,400	855.6
18 to 42	3	0.3	201	24	12	14,476	32,487	227	8	33,600	11,200	933.3
18 to 50	6	0.3	201	32	16	38,604	86,633	606	20	84,000	14,000	875.0
28 to 42	2	0.3	201	14	7	5,630	12,634	88	3	12,600	6,300	900.0
34 to 42	3	0.3	201	8	4	4,825	10,829	76	3	12,600	4,200	1050.0
24 to 50	9	0.3	201	16	8	28,953	64,975	455	15	63,000	7,000	875.0
Total	29	---	---	---	65	135,918	305,021	2,135	71	298,200	58,100	893.8

Response to Comments

- TT IMWP Comment #5: Section 3.3.1 – Please include a table/calculation (with figure referencing locations) showing the injection criteria and assumptions for each injection point. This would include information such as coordinates, treatment interval, groundwater volume, dosage concentration, substrate volume, chase water volume, lift length, lifts per boring, substrate and chase volume per lift, etc.

- *Response: See response to Jacobs's IMWP comment # 1.*

Response to Comments

- TT IMWP Comment #13: Appendix E - Please provide entire calculation, as the provided hard copy calculation could not be reviewed since it only shows the outputs and inputs, assumptions, and calculations are not provided. Note that a CD was not received to check if this information was to be provided electronically.

- *Response: Appendix E provides the assumptions and calculations (the equations used in all the calculations are in the heading of each column) for each step for the Electron Donor Dosing and the ROI calculations. The substrate estimating tool was produced by ESTCP. The EE step process does not require that source files for all calculations, models, etc. be provided on a CD for review.*

Injection Design

- Injection performed by DPT injection subcontractor
  - Two DPT rigs
  - 2-ft injection tool
  - Inject from bottom up
  - Inject at a max of 10 locations simultaneously
  - Manifolds to each injection location will have flow meter, flow controller and pressure gauge
- Injections anticipated to take approximately 18 days
  - 2 to 7 gpm (anticipated to average 4 gpm)
- Collect water level measurements during injection to monitor that significant mounding does not occur

Response to Comments

- TT General Comment #1: – Per IMWP/Step 3 EE requirements, please provide a P&ID for bioremediation equipment (in this case, a PFD would be appropriate). Please also provide details for injection point manifolding and details relating to how each point will be lifted following injection at the multiple locations (stated at up to 10 injections simultaneously).

- *Response: P&ID and PFDs for bioremediation using DPT are vendor specific. Exact details about injection lifting and manifolding will be provided in the implementation work plan when a vendor is selected by the A&E implementing the project. We do not believe that providing details regarding how each injection point will be manifolded and how each point will be lifted following injection provides the level of flexibility desired by NASA. The referenced information should be included in the implementation work plan.*

Response to Comments

- TT IMWP Comment #5: Section 3.3.1 – Since specific vendor and subcontractors cannot be selected at a design stage and contracting mechanisms require competitive bidding, please include "or approved equivalent" or similar language when specifying products and services.

- *Response: We assume this comment is referring to the following sentence:*

  "The SRS®-SD amendment will be injected into the subsurface by a DPT injection subcontractor (worked scoped assumed the use of Vironex, Inc.)"

  We intended the above language in the text to allow for the use of any vendor (which was the intent). The text above was meant to provide information on how we costed and scoped the work. The text will be modified to also include the "or approved equivalent" language.

Response to Comments

- TT IMWP Comment #7: Section 3.3.3 – The text indicates that injection activities will occur at up to 10 locations, simultaneously. Can more information be provided to detail the specific approach for injections (i.e.: injection point sequencing, etc.)?

- *Response: Based on information provided by Vironex, they will provide the equipment to allow the injections to occur at up to 10 locations simultaneously. We believe it is best to determine the injection point sequencing in the field, since the number of locations that can be injected into simultaneously will be dependent on how the formation accepts the injectate, proximity to previously abandoned locations, etc.*

Response to Comments

- Jacobs IMWP Comment #2: Section 3 – Were any other DPT injection techniques considered in addition to the drop-tip injection method? A technique that includes active pore space dilation or that induces more pressure may reduce the overall field time and would reduce the volume of water required, while still achieving the required 8 ft ROI.

- *Response: By active pore space dilation, we are assuming this terminology is referring to fluidizing and/or fracturing the formation (dilation of pore spaces) using high flow and pressure (kinetic energy) applications. We have used this approach (as well as others) at KSC, and elsewhere in Florida, as well as the Vironex system which is the system proposed in this IMWP (note the IMWP does not require the Vironex approach). The Vironex system achieved distribution objectives at LC34 Hot Spot 1 as a delivery system; therefore, we proposed the use of the Vironex system in the IMWP.*

Response to Comments

- Jacobs IMWP Comment #4: Section 3 – Include a section regarding proper abandonment of injection boreholes. The implementation section should also include a strategy for how injections will occur around previous completed injection locations. Proper abandonment and injection strategy is imperative in minimizing the potential of daylighting, as you know.

- *Response: The injection boreholes will be abandoned by tremie grouting the boreholes, and this information will be added to the IMWP. Information on injection strategy should be included in the IM Implementation Work Plan, since it will ultimately be dependent on the equipment/vendor utilized for the injection work.*

Response to Comments

- Jacobs ADP Comment #5: Slide 17(new slide 39) – Please call out the wells that will be monitored to ensure that mounding does not occur.

- *Response: Proposed monitoring wells MWA, MWC, MWF, and MWH and existing monitoring wells MW0024, MW0026 and IW0014I will be monitored for mounding. This information will be added to the IMWP.*

Geosyntec consultants

Proposed Monitoring Wells

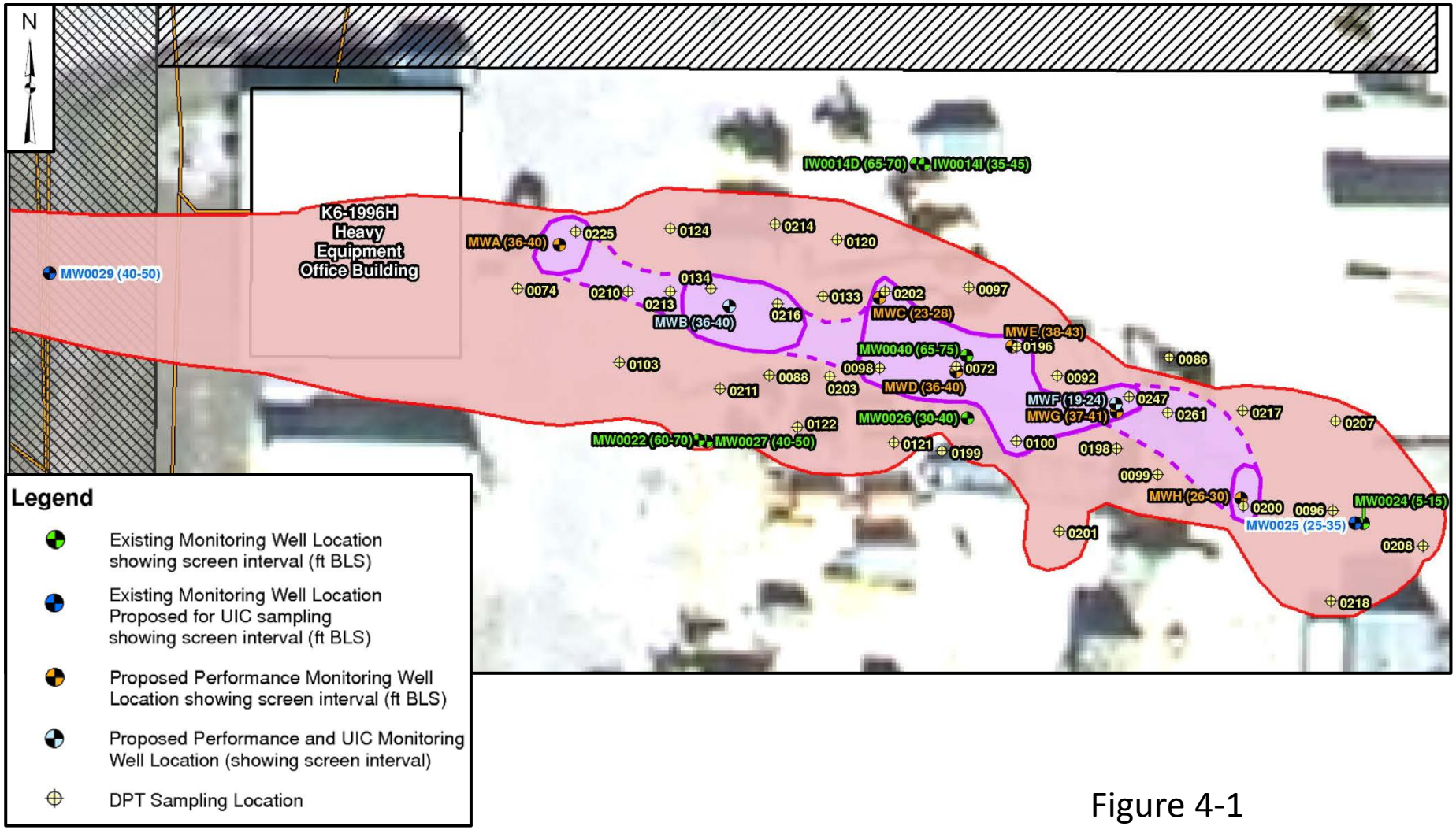


Figure 4-1

Geosyntec consultants

Proposed Monitoring Well Rationale

- MWA (36 to 40 ft BLS) – TCE concentration greater than 1% solubility from 36 to 40 ft BLS at DPT0225
- MWB (36 to 40 ft BLS) – TCE concentration greater than 1% solubility from 36 to 40 ft BLS at DPT0134 and DPT0216
- MWC (23 to 28 ft BLS) – CVOC concentrations greater than 10xNADC from 21 to 30 ft BLS at DPT0202
- MWD (36 to 40 ft BLS) – TCE concentrations greater than 1% solubility from 36 to 40 ft BLS at DPT0072
- MWE (38 to 43 ft BLS) – TCE concentrations greater than 1% solubility from 36 to 45 ft BLS at DPT0196
- MWF (19 to 24 ft BLS) – CVOC concentrations greater than 10xNADC from 16 to 25 ft BLS at DPT0247
- MWG (37 to 41 ft BLS) – TCE concentrations greater than 1% solubility from 36 to 45 ft BLS at DPT0247
- MWH (26 to 30 ft BLS) – TCE concentration greater than 1% solubility from 26 to 30 ft BLS at DPT0200

Response to Comments

- Jacobs IMWP Comment #5: Section 4 – Overall, we agree with the location and intervals of the new performance monitoring wells. At DPT-202, 10x NADC exceedances are observed over the 21-30 ft bgs interval. TCE 1% solubility exceedances are observed over the 36-40 ft. interval. The IMWP only proposes installing a performance monitoring well at the 23-28 ft. bgs interval. Consider installing another performance monitoring well at this proposed location over the 36-40 ft. bgs interval.

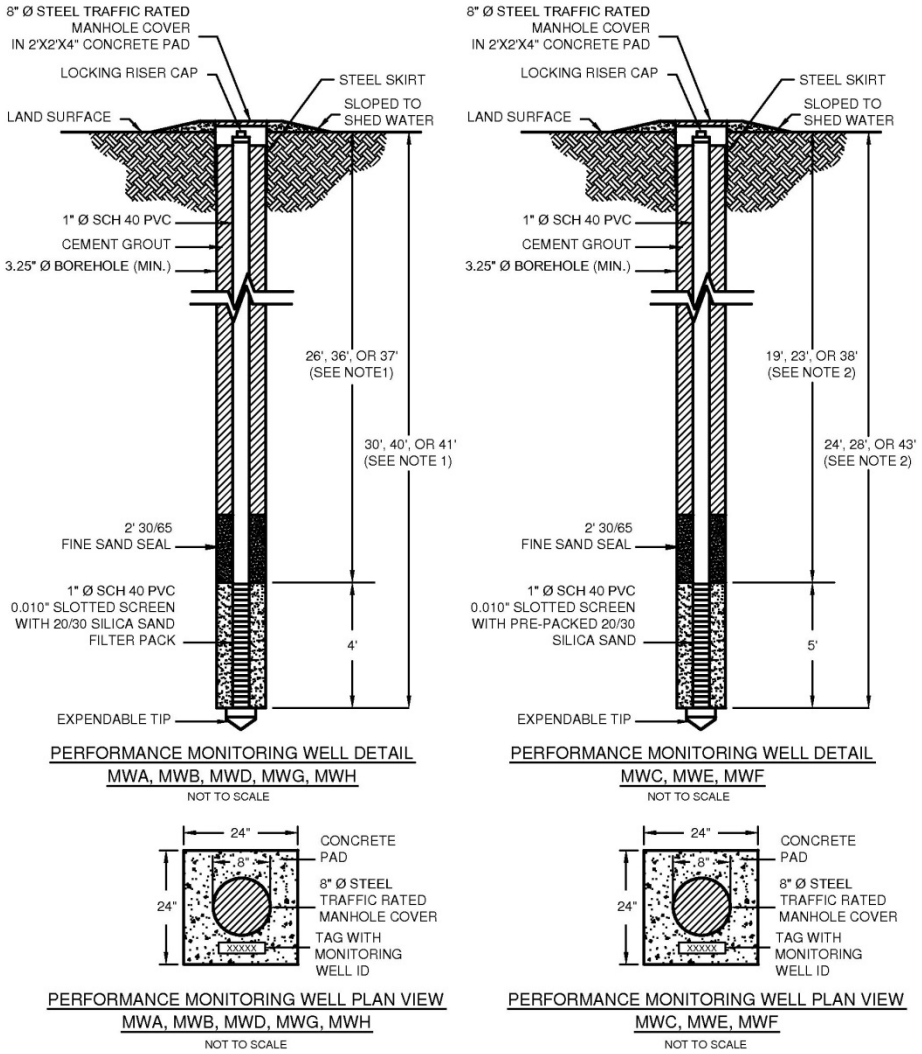
- *Response: The monitoring plan was designed with a minimum number of monitoring wells to reduce costs, while still providing adequate information to evaluate the bioremediation implementation (understanding that a robust DPT groundwater sampling event would also occur). The screen interval (23 to 28 ft BLS) for proposed monitoring well MWC at location DPT0202 was selected to monitor the shallow CVOC concentrations that are greater than 10XNADC in that area. There are six other proposed monitoring wells that are screened in the interval where TCE concentrations are greater than 1% solubility (MWA, MAB, MWD, MWE, MWG and MWH). Based on the rationale provided, we do not believe that a monitoring well screened from 36 to 40 ft BLS at DPT0202 is warranted.*

Response to Comments

- Jacobs IMWP Comment #10: Section 4 – Due to preferential pathway concerns and potential daylighting issues, performance monitoring wells should be installed after groundwater injections are complete. DPT VOC concentrations can be used for baseline comparisons instead. MW0024, MW0025, and MW0026 could be used to monitor for mounding during injections.

- *Response: See response to comment #9. Proposed monitoring wells MWA, MWC, MWF, and MWH and existing monitoring wells MW0024, MW0026 and IW0014I will be monitored for mounding.*

Monitoring Well Construction Details



- 1-inch SCH 40 PVC
- 4 or 5 ft screen interval
  - Focused on impacted interval
  - 20/30 sand pack
- 8-inch manhole
- 2′ x 2′ x 4 ″ concrete pad

Figure 4-2

Response to Comments

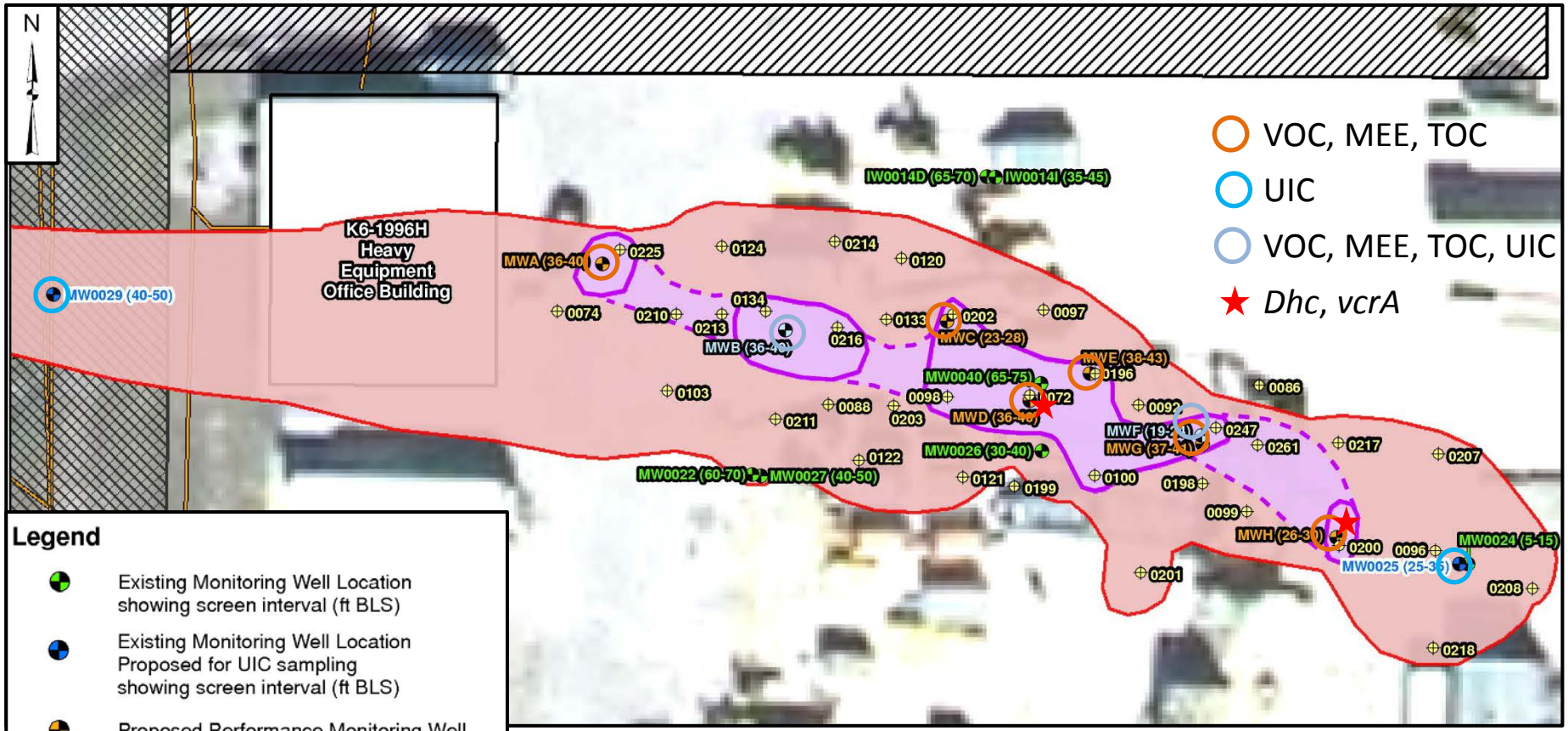
- Jacobs IMWP Comment #13: Section 4 – Monitoring wells at the GSA Reclamation Yard IM were installed with a 2' x 2' x 4" concrete pad and traffic vaults. Due to the heavy equipment traffic at GSRY, several of the pads and wells were damaged. Consider installing more robust pads (3' x 3' x 6" with reinforcement, or better) in an attempt to better withstand the heavy equipment traffic that will likely be present at CRHE.

- *Response: Geosyntec concurs and proposes to use 2′x2′x6″ reinforced pads and the IMWP will be updated to reflect this.*

Performance Monitoring
UIC Monitoring

- UIC monitoring is required with the injection of SRS®-SD
  - FDEP requires the monitoring of TDS, TRPH, and sodium
  - Four monitoring wells will be sampled for UIC parameters
    - Upgradient monitoring well - MW0025
    - Downgradient monitoring well - MW0029
    - Two proposed wells within the plume - MWB (36 to 40 ft BLS) and MWF (19 to 24 ft BLS)

Performance Monitoring



Legend

- Existing Monitoring Well Location showing screen interval (ft BLS)
- Existing Monitoring Well Location Proposed for UIC sampling showing screen interval (ft BLS)
- Proposed Performance Monitoring Well Location showing screen interval (ft BLS)
- Proposed Performance and UIC Monitoring Well Location (showing screen interval)
- DPT Sampling Location

- Baseline sampling
- Semi-annual performance monitoring
- Semi-annual UIC monitoring

Table 4-1

Response to Comments

- Jacobs IMWP Comment #12: Section 4 – If bioaugmentation is being considered as part of the remedial action, baseline sampling should include a *Dhc* census (including tceA and vcrA), at a minimum.

- *Response: Analysis of groundwater samples for Dhc and vcrA is proposed as part of the IM at proposed monitoring wells MWD (36 to 40 ft BLS) and MWH (26 to 30 ft BLS). The analysis for Dhc will provide information on the size of the Dhc population and the vcrA gene will provide information on the reductase gene responsible for VC to ethene dechlorination. The tceA gene is the Dhc reductase gene that is responsible for dechlorination of TCE to VC. We believe that quantifying the Dhc population and the vcrA gene provides valuable information and that quantifying the tceA gene is not necessary.*

Response to Comments

- Jacobs IMWP Comment #6: Section 4 – All UIC sampling locations are located along the center line of the treatment area. No UIC sampling locations are located along the perimeter of the treatment area to monitor for any lateral movements that could potentially result from the groundwater injections. Consider adding MW0026 to the UIC sampling routine.

- *Response: We believe the upgradient (MW0025) and downgradient (MW0029) UIC monitoring wells are adequate to monitor if groundwater outside the injection area is impacted by the injectate.*

Response to Comments

- Jacobs IMWP Comment #7: Section 4 – MW0029 is located approximately over 150 ft away from the treatment area and is screened below the treatment depths. Consider replacing MW0029 with IW0014I for UIC sampling or install a well over the 30-40 ft bgs interval west of the treatment area.

- *Response: Monitoring well MW0029 is included as a UIC well to evaluate if there is migration downgradient of the injection area. The injections will occur from 14 to 50 ft BLS; therefore, the screen interval of monitoring well MW0029 (40 to 50 ft BLS) is appropriate. We do not believe the addition of monitoring well IW0014I is necessary (see response to comment #6 above).*

Response to Comments

- Jacobs IMWP Comment #8: Section 4 – The majority of the performance monitoring sampling is within the treatment the SZ treatment area. Consider adding monitoring wells that are outside the treatment area to better determine the overall effectiveness of the remedial action. Propose adding MW0025 and MW0027 to monitor the 10 x NADC exceedance areas. Also, consider adding MW0026 to the performance monitoring schedule to monitor the perimeter along the SZ treatment area.

- *Response: The area outside the SZ will be monitored as part of the Interim Groundwater Monitoring (IGM) program (The IGM Plan is currently being prepared and will be presented with the next Step 1 EE). Our primary monitoring focus for this IM is to evaluate the performance of bioremediation inside the source zone. It is anticipated that DPT sampling will be performed approximately 1 to 2 years following the injection, and groundwater samples can be collected from the CVOC 10X NADC area, if deemed appropriate.*

Response to Comments

- Jacobs IMWP Comment #11: Section 4 – Consider sampling MWD and MWH for dissolved hydrogen gas on an annual basis during the performance monitoring sampling events.

- *Response: Dissolved hydrogen concentrations are not necessary for the evaluation of dechlorination of CVOCs. Hydrogen is the only electron donor that Dehalococcoides (Dhc) can utilize to dechlorinate CVOCs, but other information can be used to evaluate if dechlorination is occurring. As part of this IM, CVOCs, total organic carbon (provides information about electron donor), methane, ethane, and ethene (provides information on whether complete dechlorination is occurring), and Dhc and vinyl chloride-reductase (vcrA) (provides information on organisms and genes responsible for dechlorination) will be monitored. These constituents provide more than adequate information to evaluate the progress of microbial mediated reductive dechlorination.*

Post-Injection Monitoring

- Supplemental DPT sampling
  - Anticipated to occur 1 to 2 years after injection
  - Provide a more robust understanding of CVOC concentrations
  - Aid in design of additional injection, if required
  - Sample at, or adjacent to, previous DPT locations an/or along centerline of plume

Additional Injection

- Costing for an additional injection, if warranted, includes the following
  - 37 drums of SRS®-SD (~50% dosing)
  - Injection at all 29 locations and across same treatment interval
  - 298,000 gallons of SRS®-SD solution
  - Water will be treated with dechlorinator and made anaerobic if necessary
  - 50 gallons chase water per injection interval
    - ~3,250 gallons of chase water
  - Information included in UIC memo

Response to Comments

- TT IMWP Comment #10: Section 6.3 – Information relating to a secondary injection event is not provided in detail. Since there is potential for a secondary injection event, please provide additional information.

- *Response: The details of a second injection event would be based on the results from the performance monitoring and the DPT groundwater sampling event; therefore, it the details of a second injection event have not been included in this IMWP.*

Response to Comments

- TT IMWP Comment #11: Section 6.3 – If a secondary injection event is required, the monitoring duration would most likely extend to at least 5 years (i.e., ~2-3 years first injection, 2+ years second injection, 1+ years post-remediation monitoring). Please confirm monitoring durations.

- *Response: The monitoring duration is dependent on whether there is a second injection event and the results from the performance monitoring; therefore, the monitoring duration was not stated. Costs are included for monitoring up to 5 years to be conservative.*

Cost Estimate

- Detailed costing included in Table 6-1
  - Capital Cost (including baseline sampling) - $280,000
  - Annual monitoring and reporting - $40,000 per year
  - Supplemental DPT sampling - $30,000
  - Additional injection event - $195,000

- Total implementation cost
  - 1 year of monitoring - $320,000
  - 3 years of monitoring - $630,000
  - 5 years of monitoring - $710,000

Response to Comments

- TT IMWP Comment #12: Table 6-1 – The IMWP costs for bioremediation are approximately $80,000 higher than the highest-range costs for air sparging. Please add a slide refreshing the screening criteria between bioremediation and air sparging to validate proceeding with bioremediation in reference to the updated costs completed in the Step 3 EE. We acknowledge that bioremediation is preferred, since site interferences are decreased.

- *Response: The cost details are provided in the response to Jacobs's ADP comment #1.*

  The technology evaluation summary from the Step 2 EE is provided below.
  - *Why not air sparging?*
    - *Trenching at an active facility with large pieces of equipment and personnel that work in the area*
    - *Heavy equipment will likely require specialty vault boxes and geotech evaluation for trenching*
    - *Likely mounding from AS and possible entrainment issue with SVE*
    - *Scale up/expansion issues (when looking at plume as a whole) – due to presence of road/railroad yard and woods/wetland*
    - *Engineering solutions can be developed, but there are risks*
  - *Why Bioremediation?*
    - *Passive implementation*
    - *Ideal geochemistry*
    - *Reduced O&M&M (monitoring only)*
    - *Amenable to scaling*
    - *More cost effective than EZVI*

Response to Comments

- TT ADP Comment #4: Slide 25 (new slide 63) – Based on site conditions and remedy assumptions, how long does Geosyntec anticipate monitoring most likely to be required (i.e., which implementation cost is most likely)? A second injection event is fairly typical as a polishing step and may be logically required, making the interim measure a 5+ year option realistic.

- *Response: Monitoring of the passive IM is anticipated to be 3 to 5 years. Additional monitoring of the area will likely be required and those costs are not included in this IMWP.*

Cost Estimate

- TT IMWP Comment #9: Section 5 – It is our understanding that the Step 4B EE may not be a requirement for future IMs. We suggest Geosyntec discuss with the RPM whether to retain the Step 4 B EE.

- *Response: After discussion with the RPM, the Step 4B will be removed from the IMWP and the costing.*

Test Consensus

- Test Consensus

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MEMORANDUM

Date:	13 May 2014
To:	Anne Chrest
Copies to:	NASA Remediation Team
From:	Rebecca Daprato, Ph.D., P.E., Jim Langenbach, P.E., BCEE, and Jill Johnson, P.G.
Subject:	Contractor's Road Heavy Equipment Area Hot Spot 1 Step 3 Engineering Evaluation and IM Work Plan – Response to Comments

Comments on the Step 3 Engineering Evaluation and IM Work Plan were received and are addressed below. The comment is listed first and Geosyntec's response is provided in italics below the comment.

Jacobs Comments:

Jacobs has reviewed the Step 3 Engineering Evaluation (EE) IM Work Plan (WP) and ADP for the CRHE Area. We generally concur with the Source Zone treatment preliminary design presented in the IMWP and ADP (SZ; TCE >11,000 ppb).

We have two general comments to suggest for Team discussion, rather than for Geosyntec to address. First, it is difficult to review the ADP without referring to the IMWP to fully understand the approach. Sometimes it is a simple thing (incomplete legends on ADP figures, probably in the interest of presentation on a slide). Others are technical; for example, dosing assumptions/calculations were found only in the IMWP. The Team should consider discussing the level of detail for a Step 3 ADP, or whether the Step 3 deliverable should be an IMWP only. Second, we noted that the estimated capital cost increased from $167k to $280K between the Step 2 and Step 3 ADPs. We can see that the amendment was changed and the dilution factor was changed, both contributing to the additional cost. The current cost estimate for bioremediation is about the same as the Step 2 ADP provided as a capital cost for air sparging. (Granted, there are construction concerns with air sparging, and cost is not the sole selection criterion for remedial approach.) Some discussion regarding the level of fidelity for Step 2 cost estimates would be helpful for us, as the newer members of KSC's Remediation Program.

We present the following specific comments for your consideration:

IM Work Plan

1. Section 3 – Agree with the injection locations and treatment intervals. Expanding the treatment zone where there was no 46-50 ft bls sample is a good, conservative approach.

   Please include a preliminary injection details table (understanding that this will be finalized in the implementation work plan). This table should include injection location identification, GPS coordinates of the injection location, injection depths/lifts, and volume of SRS®-SD/water solution per lift. The table should be inserted into Section 3 of the IMWP.

   Response: A table detailing the injection details is provided in Appendix E. This table (Electron Donor Dosing and Injection Volume Calculations) provides details for the injection locations based on depth interval. The information provided includes the following: (i) treatment interval; (ii) the number of 2-foot injection lifts within this interval; and (iii) the volume of solution per lift. A table or figure providing the injection location GPS coordinates should be included in the IM Implementation Work Plan. To provide maximum flexibility to NASA for implementation, the injection details were kept generic such that the A&E/vendor implementing the project has the ability to tailor the implementation to their technical strategy/vendor equipment.

2. Section 3 – Were any other DPT injection techniques considered in addition to the drop-tip injection method? A technique that includes active pore space dilation or that induces more pressure may reduce the overall field time and would reduce the volume of water required, while still achieving the required 8 ft ROI.

   Response: By active pore space dilation, we are assuming this terminology is referring to fluidizing and/or fracturing the formation (dilation of pore spaces) using high flow and pressure (kinetic energy) applications. We have used this approach (as well as others) at KSC, and elsewhere in Florida, as well as the Vironex system which is the system proposed in this IMWP (note the IMWP does not require the Vironex approach). The Vironex system achieved distribution objectives at LC34 Hot Spot 1 as a delivery system; therefore, we proposed the use of the Vironex system in the IMWP.

3. Section 3 – Does SRS®-SD contain sodium bicarbonate or is the sodium bicarbonate an addition in the field? The SRS®-SD product information provided in Appendix C does not list sodium bicarbonate as an ingredient. If it is a field addition, and given the large amounts of water contemplated, is sodium bicarbonate addition at 6-8 g/L as a buffer necessary? We assume that the make-up and chase water will have a near neutral pH.

   Response: SRS®-SD does not normally contain sodium bicarbonate, but it will be added by the manufacturer during the manufacturing process. The addition of the sodium bicarbonate is to provide additional buffering capacity to the aquifer to reduce the pH

reduction that can occur as the substrate ferments while in the aquifer. There was no additional cost for the addition of sodium bicarbonate to the SRS®-SD.

4. Section 3 – Include a section regarding proper abandonment of injection boreholes. The implementation section should also include a strategy for how injections will occur around previous completed injection locations. Proper abandonment and injection strategy is imperative in minimizing the potential of daylighting, as you know.

   Response: The injection boreholes will be abandoned by tremie grouting the boreholes, and this information will be added to the IMWP. Information on injection strategy should be included in the IM Implementation Work Plan, since it will ultimately be dependent on the equipment/vendor utilized for the injection work.

5. Section 4 – Overall, we agree with the location and intervals of the new performance monitoring wells. At DPT-202, 10x NADC exceedances are observed over the 21-30 ft bgs interval. TCE 1% solubility exceedances are observed over the 36-40 ft. interval. The IMWP only proposes installing a performance monitoring well at the 23-28 ft. bgs interval. Consider installing another performance monitoring well at this proposed location over the 36-40 ft. bgs interval.

   Response: The monitoring plan was designed with a minimum number of monitoring wells to provide adequate information to evaluate the bioremediation implementation (understanding that a robust DPT groundwater sampling event would also occur). The screen interval (23 to 28 ft BLS) for proposed monitoring well MWC at location DPT0202 was selected to monitor the shallow CVOC concentrations that are greater than 10XNADC in that area. There are six other proposed monitoring wells that are screened in the interval where TCE concentrations are greater than 1% solubility (MWA, MAB, MWD, MWE, MWG and MWH). Based on the rationale provided, we do not believe that a monitoring well screened from 36 to 40 ft BLS at DPT0202 is warranted.

6. Section 4 – All UIC sampling locations are located along the center line of the treatment area. No UIC sampling locations are located along the perimeter of the treatment area to monitor for any lateral movements that could potentially result from the groundwater injections. Consider adding MW0026 to the UIC sampling routine.

   Response: We believe the upgradient (MW0025) and downgradient (MW0029) UIC monitoring wells are adequate to monitor if groundwater outside the injection area is impacted by the injectate.

7. Section 4 – MW0029 is located approximately over 150 ft away from the treatment area and is screened below the treatment depths. Consider replacing MW0029 with IW0014I for UIC sampling or install a well over the 30-40 ft bgs interval west of the treatment area.

Response: Monitoring well MW0029 is included as a UIC well to evaluate if there is migration downgradient of the injection area. The injections will occur from 14 to 50 ft BLS; therefore, the screen interval of monitoring well MW0029 (40 to 50 ft BLS) is appropriate. We do not believe the addition of monitoring well IW0014I is necessary (see response to comment #6 above).

8. Section 4 – The majority of the performance monitoring sampling is within the treatment the SZ treatment area. Consider adding monitoring wells that are outside the treatment area to better determine the overall effectiveness of the remedial action. Propose adding MW0025 and MW0027 to monitor the 10 x NADC exceedance areas. Also, consider adding MW0026 to the performance monitoring schedule to monitor the perimeter along the SZ treatment area.

   Response: The area outside the SZ will be monitored as part of the Interim Groundwater Monitoring (IGM) program (The IGM Plan is currently being prepared and will be presented with the next Step 1 EE). Our primary monitoring focus for this IM is to evaluate the performance of bioremediation inside the source zone. It is anticipated that DPT sampling will be performed approximately 1 to 2 years following the injection, and groundwater samples can be collected from the CVOC 10X NADC area, if deemed appropriate.

9. Section 4 – MW0026 is located along the southern edge of the SZ treatment area. Due to its proximity to the treatment area, consider abandoning and re-installing MW0026 due to preferential pathway concerns and potential daylighting issues.

   Response: If the injection technique proposed in the IMWP is utilized, we do not anticipate daylighting issues at monitoring well MW0026 (no daylighting issues occurred at LC34 Hot Spot 1 where we had monitoring wells [with secure caps] within 2 feet of injection locations). If an alternative injection vendor/technique is ultimately utilized, the abandonment of the well should be considered in the IM Implementation Work Plan.

10. Section 4 – Due to preferential pathway concerns and potential daylighting issues, performance monitoring wells should be installed after groundwater injections are complete. DPT VOC concentrations can be used for baseline comparisons instead. MW0024, MW0025, and MW0026 could be used to monitor for mounding during injections.

    Response: See response to comment #9. Proposed monitoring wells MWA, MWC, MWF, and MWH and existing monitoring wells MW0024, MW0026 and IW0014I will be monitored for mounding

11. Section 4 – Consider sampling MWD and MWH for dissolved hydrogen gas on an annual basis during the performance monitoring sampling events.

Response: *Dissolved hydrogen concentrations are not necessary for the evaluation of dechlorination of CVOCs. Hydrogen is the only electron donor that Dehalococcoides (Dhc) can utilize to dechlorinate CVOCs, but other information can be used to evaluate if dechlorination is occurring. As part of this IM, CVOCs, total organic carbon (provides information about electron donor), methane, ethane, and ethene (provides information on whether complete dechlorination is occurring), and Dhc and vinyl chloride-reductase (vcrA) (provides information on organisms and genes responsible for dechlorination) will be monitored. These constituents provide more than adequate information to evaluate the progress of microbial mediated reductive dechlorination.*

12. Section 4 – If bioaugmentation is being considered as part of the remedial action, baseline sampling should include a *Dhc* census (including tceA and vcrA), at a minimum.

    Response: *Analysis of groundwater samples for Dhc and vcrA is proposed as part of the IM at proposed monitoring wells MWD (36 to 40 ft BLS) and MWH (26 to 30 ft BLS). The analysis for Dhc will provide information on the size of the Dhc population and the vcrA gene will provide information on the reductase gene responsible for VC to ethene dechlorination. The tceA gene is the Dhc reductase gene that is responsible for dechlorination of TCE to VC. We believe that quantifying the Dhc population and the vcrA gene provides valuable information and that quantifying the tceA gene is not necessary.*

13. Section 4 – Monitoring wells at the GSA Reclamation Yard IM were installed with a 2' x 2' x 4" concrete pad and traffic vaults. Due to the heavy equipment traffic at GSRY, several of the pads and wells were damaged. Consider installing more robust pads (3' x 3' x 6" with reinforcement, or better) in an attempt to better withstand the heavy equipment traffic that will likely be present at CRHE.

    Response: *Geosyntec concurs and proposes to use 2′x2′x6″ reinforced pads and the IMWP will be updated to reflect this.*

Step 3 EE ADP

1. General – Please discuss the substitution of SRS®-SD for EOS®, and the flow-down changes (such as dilution), plus any other factors that were notably different between Step 2 assumptions and Step 3 design. This will provide the Remediation Program with clear documentation of the reason for the change in capital cost. We do not disagree with the selection of SRS®-SD, but since EOS® was presumed to yield representative costing for whatever amendment was developed in Step 3 and there was a notable increase in cost, the reason for selection should be described.

    Response: *The changes between the Step 2 and the Step 3 EE included the following: (i) modification of the electron donor from EOS® to SRS®-SD; (ii) increasing the dosing of*

the electron donor from 0.5% to 0.7%;(iii) the method of calculating the pore volume of the treatment area (considering overlap and drift outside the treatment area); and (iv) an increase in number of DPT sampling days from three to five. A description of our rationale for these modifications is provided below.

The decision to substitute SRS®-SD for EOS® stemmed from our experience with both products. Over the past couple of years, the EOS® products have arrived at our sites with a pH that was less than 6, which is below neutral and can influence the pH of the aquifer. SRS®-SD has a neutral pH and we have had positive results.

The SRS®-SD costing provided was their estimated 2015 costing ($940/drum), since NASA is anticipating this IM will not be implemented until 2015 (The estimated 2014 pricing is ~$882/drum). The cost for EOS provided in the Step 2 EE was an anticipated 2014 cost and they were not able to provide us an estimated cost for 2015. This change affected the cost because the cost of a drum of SRS®-SD is approximately $940/drum and the cost of a drum of EOS® was approximately $730/drum.

The decision to increase the electron donor dosing from 0.5% to 0.7% was based on comments received during the Step 2 EE that were concerned that the dosing of 0.5% was low. As stated in the IMWP, Geosyntec generally recommends a dosing of 0.5% to 1% of pore volume (with oil); therefore, the dosing was increased to 0.7%. This change affected the cost because the volume of EVO increased. The cost increase is discussed below.

During the Step 2 EE, the treatment volume was estimated by using the area of the SZ times the treatment interval (3,050 square feet x 30 feet). For the IMWP, since the treatment interval varied by location, the pore volume was calculated for each injection location (assuming an 8-foot radius of influence and a specific treatment interval), and then summed to provide a total treatment volume. This approach more accurately reflects the total treatment volume, since it includes the overlapping of the radius of influence (in addition to the treatment of some areas outside the specific SZ iso-contour). The change in this calculation increased the total treatment volume (from ~ 200,000 gallons to 300,000 gallons), which increased the amount of EVO solution required and increased the number of days that injections would occur.

The cost from the Step 2 EE and the Step 3 EE were compared based on the cost per cubic yard treated. A summary of the cost is provided below:

- *Step 2 EE cost*
    - *~$129/cy based on total cost for 3 years ($437,000) and cubic yards treated (3,390 cy)*

- *~$164/cy based on total cost for 5 years ($557,000) and cubic yards treated (3,390 cy)*

- *Step 3 EE cost*
  - *~$145/cy based on total cost for 3 years ($626,500) and cubic yards treated (4,317 cy)*
  - *~$164/cy based on total cost for 5 years ($708,700) and cubic yards treated (4,317 cy)*

The costs summarized above show that from the Step 2 EE to the Step 3 EE, the treatment volume has increased, but that the cost per cubic yard is similar.

2. Slide 5 – Shows the SZ Area and 10x NADC exceedances area. Since this figure was based upon the DPT results presented in Slide 9, consider having the information on Slide 9 precede Slide 5.

   Response: The location of this slide is to help aid in the discussion of treatment intervals and monitoring depth, the slide was not intended to be provided as background information.

3. Figures 3-2 and 3-3 – Treatment depths on Figures 3-2 and 3-3 (slides 14 and 15) are presumably indicated by the color blocks, but there is no legend or key to that effect. Recommend adding a call-out or legend.

   Response: A printing error caused the injection intervals to not be presented on Figures 3-2 and Figures 3-3. The figures are presented correctly in the ADP, and have been reprinted and provided to the Team.

4. Slide 16 – Please include the assumptions used to generate the volume estimates in the chart on Slide 16 (porosity, pore space saturation, ROI, vertical thickness, etc.). We found these in Appendix E of the IMWP.

   Response: Slide 16 is a summary of the information presented in Appendix E of the IMWP. A reference to Appendix E has been added to the slide, since the ADP and IMWP are meant to be complimentary documents.

5. Slide 17 – Please call out the wells that will be monitored to ensure that mounding does not occur.

   Response: Proposed monitoring wells MWA, MWC, MWF, and MWH and existing monitoring wells MW0024, MW0026 and IW0014I will be monitored for mounding. This information will be added to the IMWP.

Tetra Tech's Comments:

Tetra Tech generally concurs with the information presented in the Contractor's Road Heavy Equipment Area (SMWU 055) Interim Measure Work Plan (IMWP) with the below comments. Overall, the package was well written and completed with a high level of thoroughness and was clearly presented.

IMWP

1. Section 1.3 – Please verify if the objective the IM is to evaluate the effectiveness of bioremediation or to treat the plume to an endpoint (e.g., NADC, transition to MNA, etc.). As currently stated, the IM objectives appear worded towards a pilot study rather than an IM.

   Response: The IM objective is as stated in the ADP and the IMWP and is worded this way because the IM is focused on the SZ (located within a larger plume).

2. Section 2.7 – It would be helpful in evaluating biological conditions if chloride data at the injection depth intervals is provided in this section. Overall, this section was very helpful in supporting the appropriateness of bioremediation at CRHE.

   Response: Chloride data was not collected at this site. During the data gap sampling in December 2013, the salinity from monitoring wells MW0025 (0.77%) and MW0029 (1.5%), indicate that chloride should not affect Dhc. Additionally, ethene and ethane were detected at the site and that suggests that complete dechlorination is occurring.

3. Section 3.1 – The inherent benefit of bioaugmenting may overweigh a "wait and see" approach. For the small capital expenditure, enhanced dechlorination may occur while biostimulation conditions are at their best and the appropriate microbial populations are present. We suggest adding the proposed KB-1 into the initial injection design to account for any uncertainty with the dechlorination potential of the indigenous populations. Alternately, microcosm testing prior to implementation of the IM may be beneficial to confirm full dechlorination and kinetics with the indigenous populations versus KB-1 bioaugmentation.

   Response: Based upon our sampling results (presence of ethene and ethane and presence of Dhc and vcrA), we do not believe microcosm testing is necessary, since the results indicate that complete reductive dechlorination is occurring. We agree that bioaugmentation would be beneficial, but is not necessary. We propose that the decision to bioaugment be made based on the baseline sampling results. Groundwater samples will be analyzed for Dhc and vcrA from two proposed monitoring wells and if the Dhc and vcrA concentration is less than 10^6 gene copies per liter, bioaugmentation will be performed.

4. Section 3.2 – It is our understanding that SRS-B contains ingredients for aquifer buffering (based on Terra Systems' website). Please confirm if sodium bicarbonate is in the costed product (SRS-SD) or if a custom formulation was derived for CRHE. Will any additives result in secondary UIC issues (e.g., addition of sodium bicarbonate forming sodium salts)?

   Response: There was no additional cost for adding sodium bicarbonate to the SDS®-SD. SRS®-B is formulated for low pH aquifers and has 5 to 15% buffer. Per the FDEP Acceptance Letter provided in Appendix D of the IMWP, UIC monitoring associated with the injection of SRS®-SD requires monitoring of sodium, total dissolved solids, and total recoverable petroleum hydrocarbons. Since the UIC monitoring includes sodium, there should be no secondary UIC issues. Also, by approximating the resulting concentration of sodium in the 305,000 gallons of pore volume, the concentration of sodium in the aquifer due to the addition to 8 g/L of sodium bicarbonate to the SRS®-SD is less than 0.03 g/L, and the KSC Upper Range of Background for sodium is 15 g/L (FDEP GCTL is 0.16 g/L).

5. Section 3.3.1 – Since specific vendor and subcontractors cannot be selected at a design stage and contracting mechanisms require competitive bidding, please include "or approved equivalent" or similar language when specifying products and services.

   Response: We assume this comment is referring to the following sentence:

   "The SRS®-SD amendment will be injected into the subsurface by a DPT injection subcontractor (worked scoped assumed the use of Vironex, Inc.)"

   We intended the above language in the text to allow for the use of any vendor (which was the intent). The text above was meant to provide information on how we costed and scoped the work. The text will be modified to also include the "or approved equivalent" language.

   Section 3.3.1 – Please include a table/calculation (with figure referencing locations) showing the injection criteria and assumptions for each injection point. This would include information such as coordinates, treatment interval, groundwater volume, dosage concentration, substrate volume, chase water volume, lift length, lifts per boring, substrate and chase volume per lift, etc.

   Response: See response to Jacobs's IMWP comment # 1.

6. Section 3.3.3 – Were costs and time required for conditioning dilution and chase water included in the design? For example, how many and what size tanks will be required and how much dechlorinator and oxygen scavenger will be required.

Response: *Yes, time was considered; however, it is minimal when using the sodium sulfite as presented in the IMWP. The number and size of tanks is an Implementation Work Plan Detail.*

Note that for the evaluation in the IMWP, the mixing was based upon the vendor using 250-gal mixing tanks as described in Section 3.3.3. As described in Section 3.3.3 of the IMWP, 0.24 g/gal of sodium sulfite would be added (calculations included in Appendix E). The amount of dechlorinator added would change based on product (or natural conditioning may be feasible).

7. Section 3.3.3 – The text indicates that injection activities will occur at up to 10 locations, simultaneously. Can more information be provided to detail the specific approach for injections (i.e.: injection point sequencing, etc.)?

   Response: *Based on information provided by Vironex, they will provide the equipment to allow the injections to occur at up to 10 locations simultaneously. We believe it is best to determine the injection point sequencing in the field, since the number of locations that can be injected into simultaneously will be dependent on how the formation accepts the injectate, proximity to previously abandoned locations, etc.*

8. Figure 3-2/3-3 – It is not clear what this figure is presenting, as injection locations and intervals are not depicted. Please revise showing applicable injection locations and treatment interval within the cross section. See Slides 14 and 15 of the Step 3 EE.

   Response: *See response to Jacobs's IMWP comment #3.*

9. Section 5 – It is our understanding that the Step 4B EE may not be a requirement for future IMs. We suggest Geosyntec discuss with the RPM whether to retain the Step 4 B EE.

   Response: *After discussion with the RPM, the Step 4B will be removed from the IMWP and the costing.*

10. Section 6.3 – Information relating to a secondary injection event is not provided in detail. Since there is potential for a secondary injection event, please provide additional information.

    Response: *The details of a second injection event would be based on the results from the performance monitoring and the DPT groundwater sampling event; therefore, it the details of a second injection event have not been included in this IMWP.*

11. Section 6.3 – If a secondary injection event is required, the monitoring duration would most likely extend to at least 5 years (i.e., ~2-3 years first injection, 2+ years second injection, 1+ years post-remediation monitoring). Please confirm monitoring durations.

Response: The monitoring duration is dependent on whether there is a second injection event and the results from the performance monitoring; therefore, the monitoring duration was not stated. Costs are included for monitoring up to 5 years to be conservative.

12. Table 6-1 – The IMWP costs for bioremediation are approximately $80,000 higher than the highest-range costs for air sparging. Please add a slide refreshing the screening criteria between bioremediation and air sparging to validate proceeding with bioremediation in reference to the updated costs completed in the Step 3 EE. We acknowledge that bioremediation is preferred, since site interferences are decreased.

    Response: The cost details are provided in the response to Jacobs's ADP comment #1.

    The technology evaluation summary from the Step 2 EE is provided below.

    - *Why not air sparging?*
        - *Trenching at an active facility with large pieces of equipment and personnel that work in the area*
        - *Heavy equipment will likely require specialty vault boxes and geotech evaluation for trenching*
        - *Likely mounding from AS and possible entrainment issue with SVE*
        - *Scale up/expansion issues (when looking at plume as a whole) – due to presence of road/railroad yard and woods/wetland*
        - *Engineering solutions can be developed, but there are risks*
    - *Why Bioremediation?*
        - *Passive implementation*
        - *Ideal geochemistry*
        - *Reduced O&M&M (monitoring only)*
        - *Amenable to scaling*
        - *More cost effective than EZVI*

13. Appendix E – Please provide entire calculation, as the provided hard copy calculation could not be reviewed since it only shows the outputs and inputs, assumptions, and calculations are not provided. Note that a CD was not received to check if this information was to be provided electronically.

    Response: Appendix E provides the assumptions and calculations (the equations used in all the calculations are in the heading of each column) for each step for the Electron Donor Dosing and the ROI calculations. The substrate estimating tool was produced by

ESTCP. The EE step process does not require that source files for all calculations, models, etc. be provided on a CD for review.

Step 3 EE

The following comments for the Step 3 EE ADP are in addition to those commented on the IMWP above:

1. Slide 7 – Please see IMWP comment regarding to IM objectives.

   Response: See response to Tetra Tech IMWP comment #1.

2. Slide 11 – Suggest numbering DPT points and providing a reference injection calculation (See IMWP table)

   Response: The DPT injection locations can be numbered as part of the IM Implementation Work Plan.

3. Slide 14/15 – Figures 3-2 and 3-3 do not match these figures. Please revise, as commented in IMWP.

   Response: See response to Jacob's ADP comment #3.

4. Slide 25 – Based on site conditions and remedy assumptions, how long does Geosyntec anticipate monitoring most likely to be required (i.e., which implementation cost is most likely)? A second injection event is fairly typical as a polishing step and may be logically required, making the interim measure a 5+ year option realistic.

   Response: Monitoring of the passive IM is anticipated to be 3 to 5 years. Additional monitoring of the area will likely be required and those costs are not included in this IMWP.

General Comments

1. Per IMWP/Step 3 EE requirements, please provide a P&ID for bioremediation equipment (in this case, a PFD would be appropriate). Please also provide details for injection point manifolding and details relating to how each point will be lifted following injection at the multiple locations (stated at up to 10 injections simultaneously).

   Response: P&ID and PFDs for bioremediation using DPT are vendor specific. Exact details about injection lifting and manifolding will be provided in the implementation work plan when a vendor is selected by the A&E implementing the project. We do not believe that providing details regarding how each injection point will be manifolded and how each point will be lifted following injection provides the level of flexibility desired

by NASA. The referenced information should be included in the implementation work plan.

2. Since CRHE is an active facility, it may be appropriate to provide a site layout/staging plan to provide locations where substrate, equipment, and tank staging are planned to be placed.

   <u>Response:</u> We concur and believe this should be provided in the implementation work plan.

APPENDIX F

STEP 1 FOR HS2, HCP and LCP ENGINEERING EVALUATION ADP (electronic copy only)

Contractor's Road Heavy Equipment (CRHE) Area (SWMU055)

Step 1 Engineering Evaluation

April 2015

Objectives of Today's Presentation

- Present Step 1A & 1B Engineering Evaluation for
  - Hot Spot 2 (HS2),
  - Low Concentration Plume (LCP),
  - High Concentration Plume (HCP), and
  - Interim Groundwater Monitoring Plan (Section 1C).
- Obtain team consensus on horizontal and vertical delineation for HS2, HCP, and LCP.
- Obtain team consensus on technologies retained for Step 2 evaluation.
- Present the interim groundwater monitoring plan (IGWMP).

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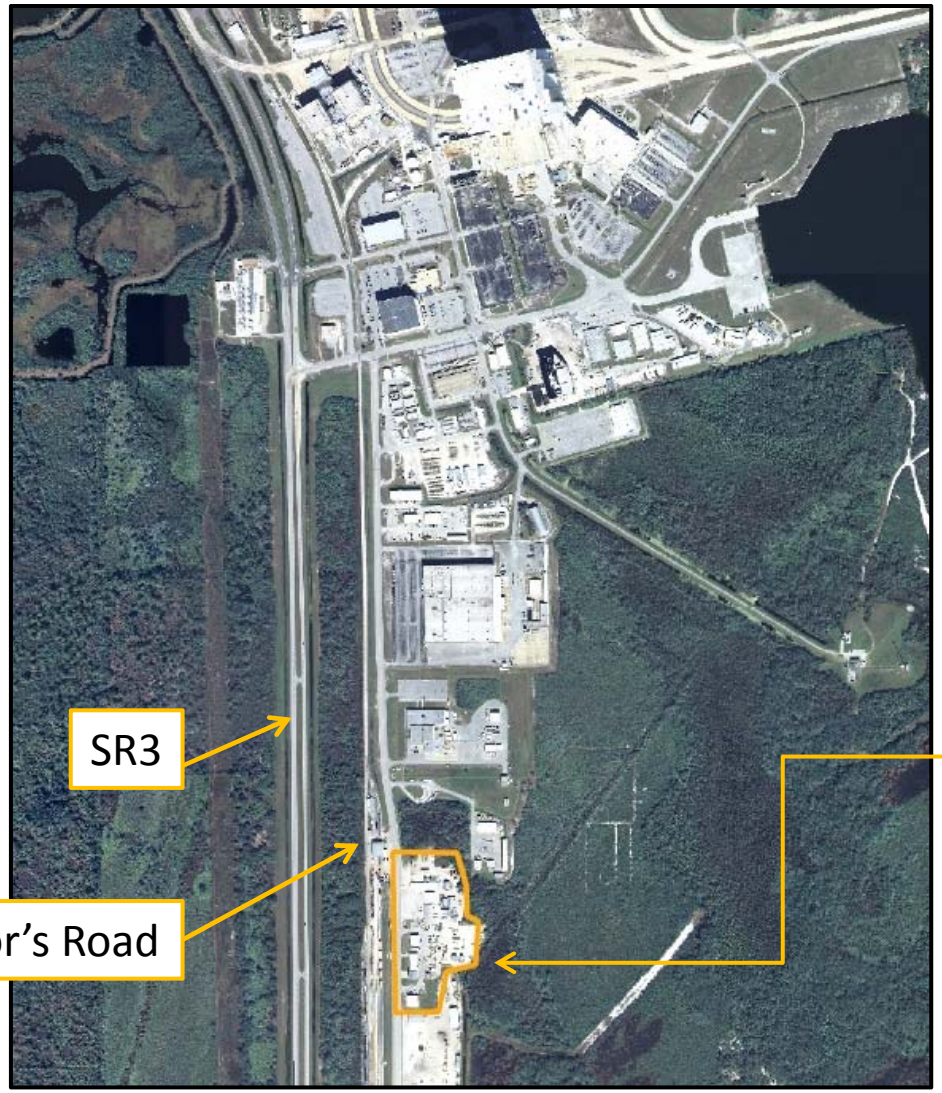
Site Location



Site Overview

- Numerous buildings and support structures on eastern portion of site
- Utility corridor adjacent to Contractor's Rd
- RR tracks, wetlands, and heavy vegetation in HS2
- Kennedy Parkway (SR3) borders site to the west

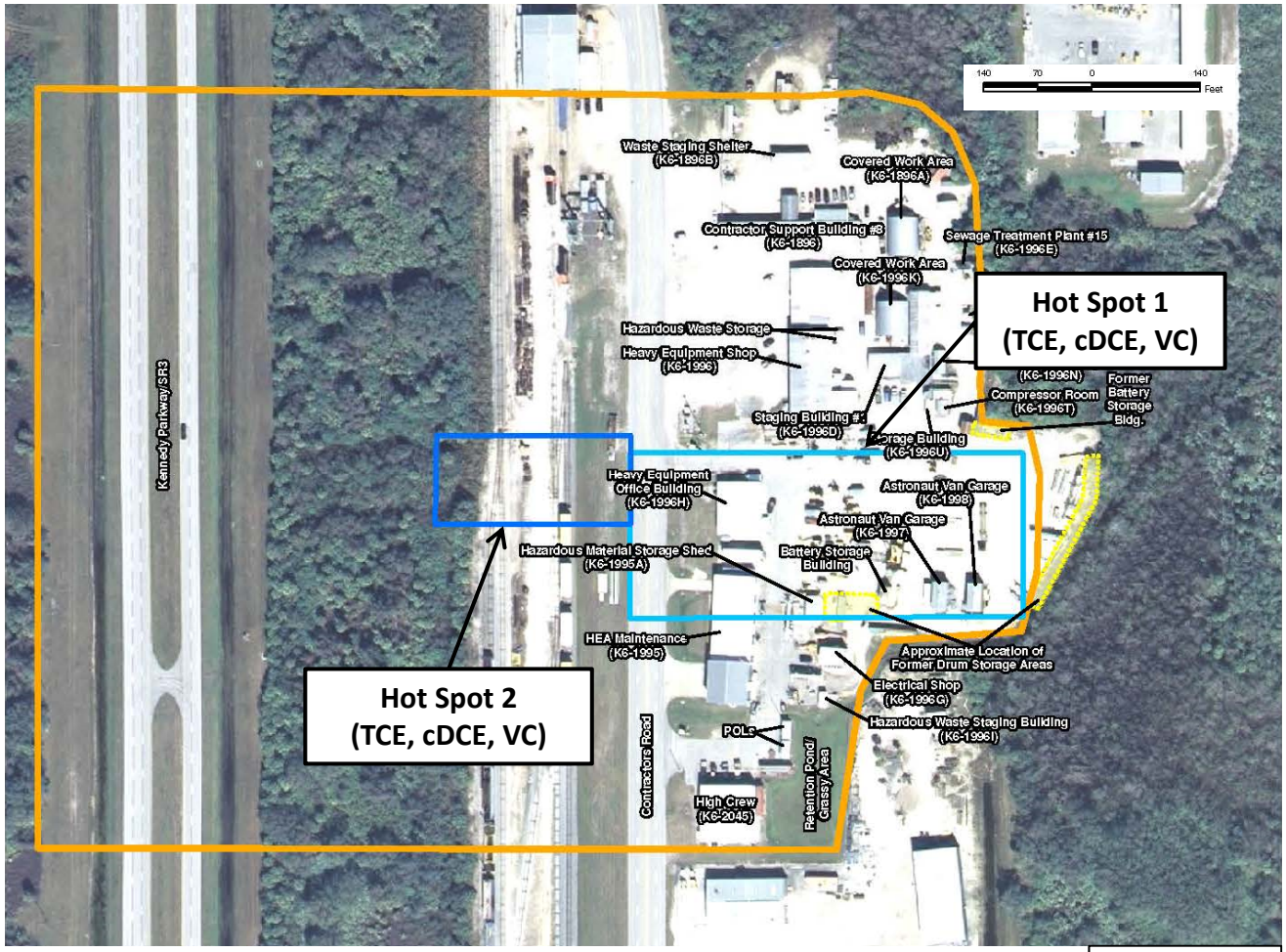


Figure 1

Site History

- Overall site features:
  - About 23 acres
  - Paved portions
  - Majority of site is gravel and dense woods
  - Many underground utilities
  - Thick road base in some areas to support heavy equipment
- Historical site use:
  - Hazardous Waste Storage/Staging
  - Printed Circuit Board Manufacturing
  - Domestic Wastewater Treatment
  - Heavy Equipment Maintenance/Storage (historical and current use)

Photograph of heavy equipment storage at CRHE; view facing south from the Contractor's Road entrance driveway, with Heavy Equipment Office Building (K6-1996H) shown on far right.

Assessment Background

- 1994: Preliminary assessment (EG&G, Inc.)
  - Identified CVOCs and metals in GW
  - Recommended additional assessment
- 1997-1999: RFI (HSW, Inc.)
  - Identified CVOCs and metals in GW
  - VC up to 370 µg/L in northern area (waterloo profiler)
  - TCE up to 41 µg/L (in IW-4I); 0.4 µg/L by end of RFI activities
  - Highest concentrations between about 15 and 45 ft BLS
- 2000: Corrective Measures Study (CMS) (HSW, Inc.)
  - Site clean up goals established for industrial setting
  - LUCIP for GW
  - No active corrective measures recommended
  - LTM program to monitor natural attenuation of CVOCs in GW
  - 10 year estimated timeframe to reach cleanup goals

Assessment Background

- 2000 – 2005: Semi-annual GW sampling in 7 wells
- 2005 – 2009: Site incorporated into VAB LTM program
- 2010 May: Team approved discontinuing LTM program at the Site until assessment is complete
- 2009 – 2014: Supplemental Site Assessment
- 2013 Dec: HS1 Step 1 approved
- 2014 Feb: HS1 Step 2 approved
- 2014 May: HS1 Step 3 approved

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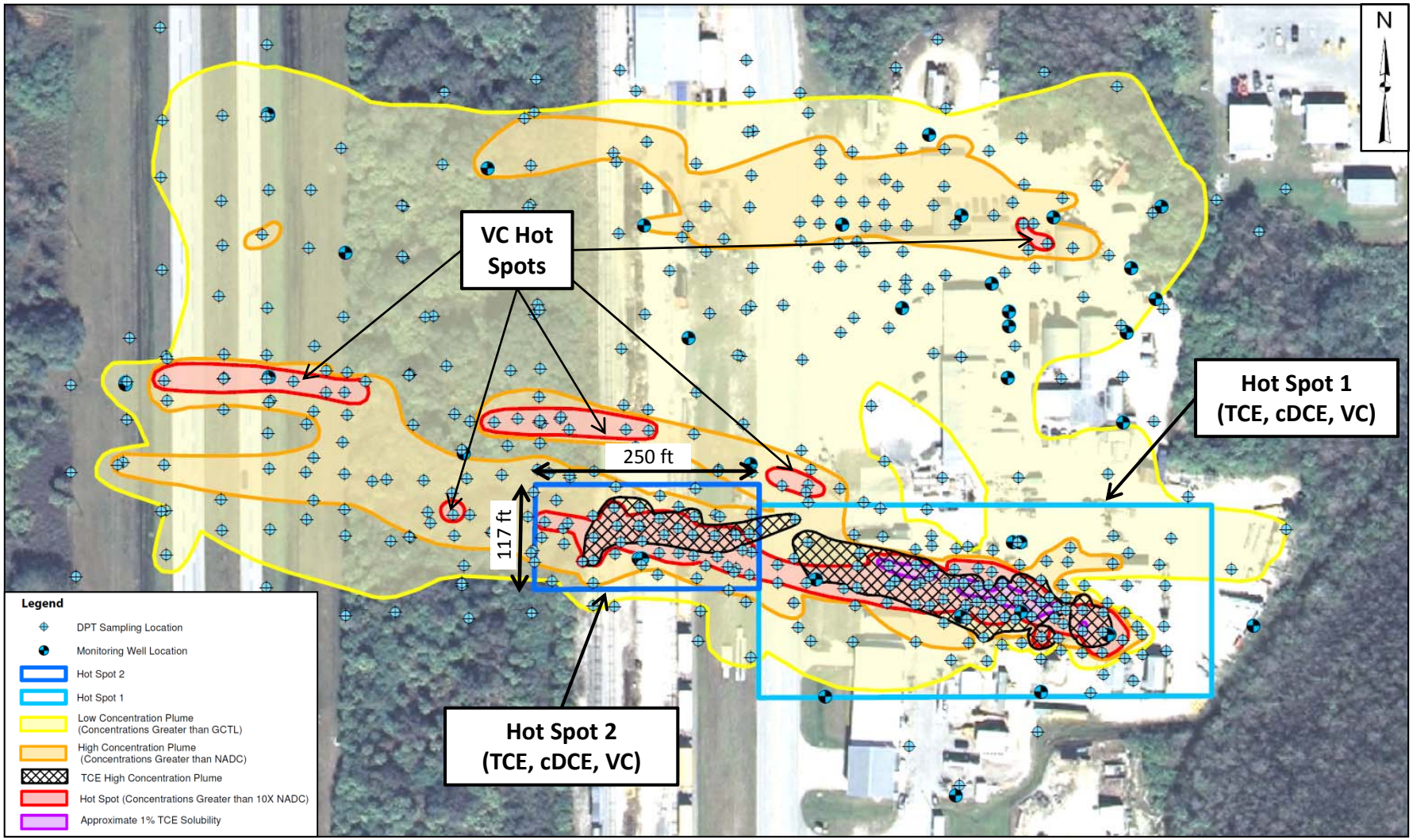
Overall Site and Identification of Hot Spots



Review of HS1

- HS1 features
  - About 3 acres
  - Paved and gravel areas
  - Buildings
  - Underground utility corridor east of Contractor's Road
  - Thick road base in northern part of HS1
  - Heavy equipment (up to 300,000 lbs) transported and stored in the area
  - Overall 10xNADC Plume runs beneath K6-1996H and Contractor's Road

Review of HS1

- HS1 Step 1 EE – December 2013
- Impacts generally from 8 to 50 ft BLS
- MIP001 installed in HS1 – February 2010
  - Results consistent with DPT groundwater concentrations
- Max concentrations (µg/L)
  - TCE = 160,000 (DPT72, 36 to 40 ft BLS)
  - cDCE = 110,000 (DPT200, 26 to 30 ft BLS)
  - VC = 19,000 (DPT200, 31 to 35 ft BLS)
- SZ contaminant mass is mainly 30 to 46 ft BLS (60%)
- Lithology
  - primarily sand until ~40 to 45 ft BLS
  - below ~ 40 to 45 ft BLS, lithology is silty sand, with varying amounts of clay (semi-confining layer)
- Vertical delineation in source zone confirmed with monitoring well – MW0040

Review of HS1

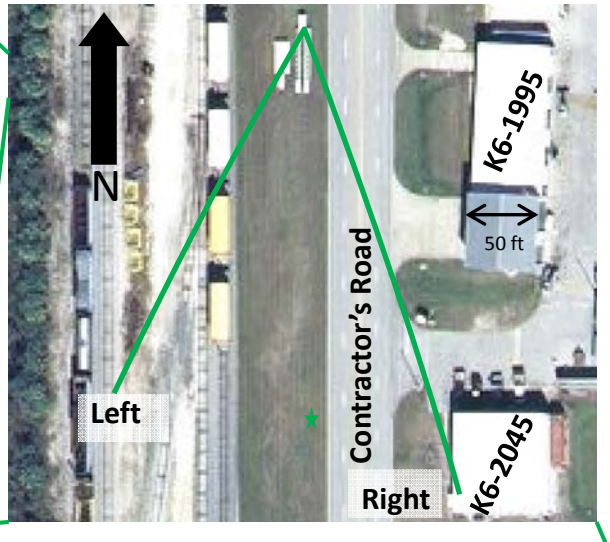
- Team consensus for HS1 Step 1
  - Delineation complete for:
    - SZ (TCE greater than 11,000 µg/L)
    - Hot Spot (TCE and cDCE greater than 10xNADC)
    - HCP (concentration of TCE greater than NADC)
    - LCP (concentration of TCE greater than GCTL)
  - cDCE HCP and LCP are co-mingled with adjacent HS areas; delineation within HS1 is complete
  - VC Hot Spot, HCP and LCP are co-mingled with adjacent HS areas; delineation within HS1 is complete
- Recommended evaluation of bioremediation, emulsified zero valent iron (EZVI), and air sparge/soil vapor extraction (AS/SVE)
- Team Consensus for HS1 Step 2
  - Move forward with design for bioremediation within SZ
- Team Consensus for HS1 Step 3
  - Bioremediation design within SZ (injection of emulsified vegetable oil)

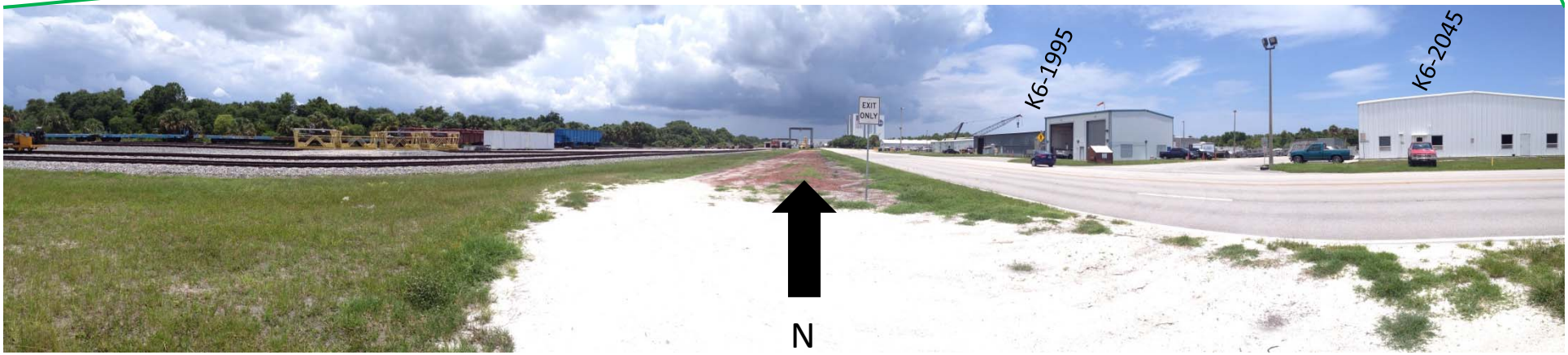
TetraTech Comment #1: Slide 12 (new Slide 13) – Suggest showing the site conditions for the HS2 area, as photos show conditions of HS1.

Response: Comment noted; pictures of HS2 included.

Site Conditions

- Lithology
- Hydrogeologic characteristics





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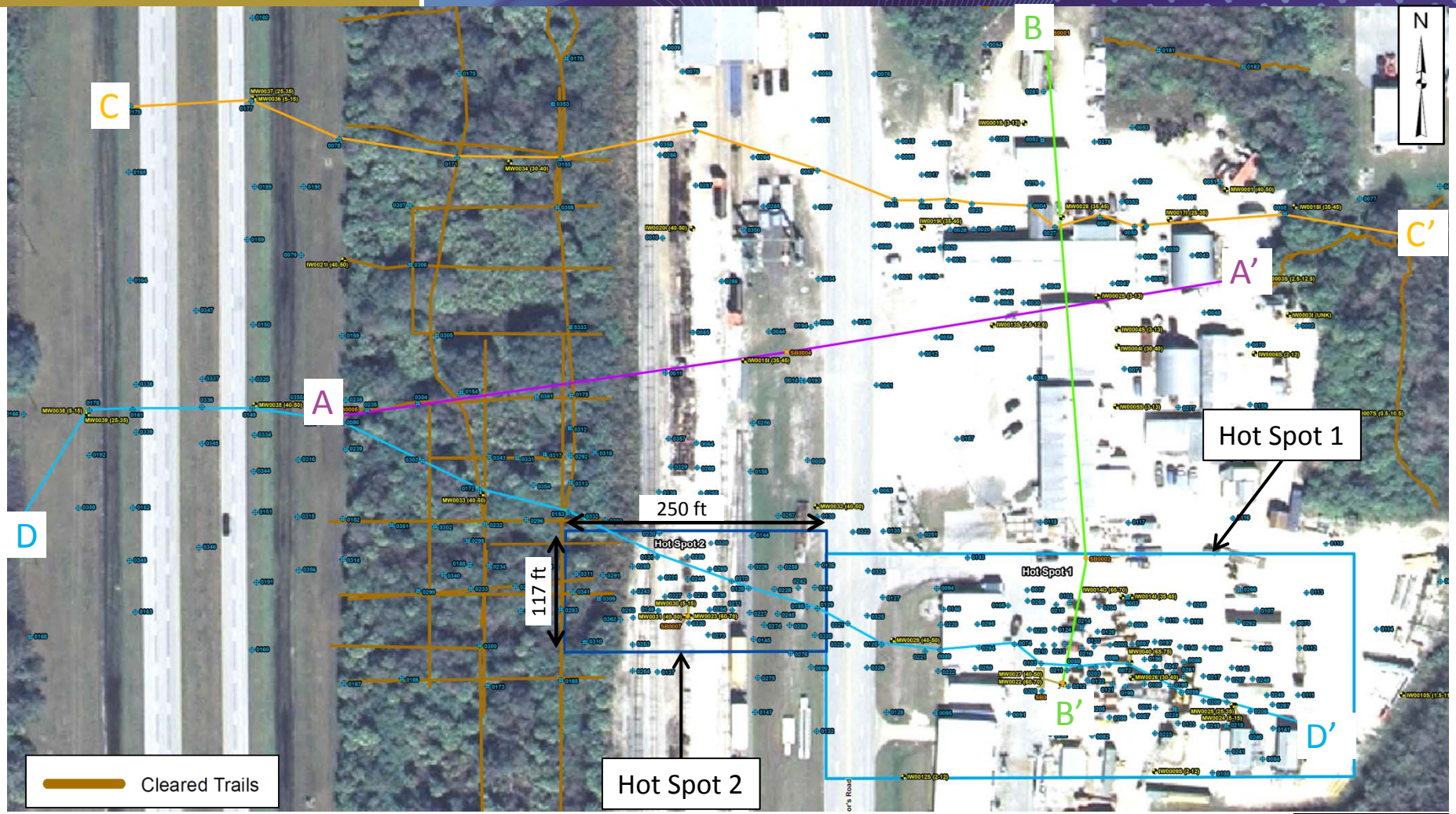
Lithologic Cross Section Location Map



Note: Cross sections A to A' and B to B' display lithology only; cross sections C to C' and D to D' display subsurface plume profiles.

Figure 2

Response to Comment

TetraTech Comment #2: Slide 14 (new Slide 16) - Is the lithologic unit present from approximately 48 to 78 feet bls a continuous silty sand with clay unit? Suggest showing any details that may relate to confining/semi-confining conditions, as a relatively thin unit with higher clay content is typically present where the top of this layer is depicted (global to cross sections).

Response: Comment noted; see revised cross section notes.

Lithology A to A'

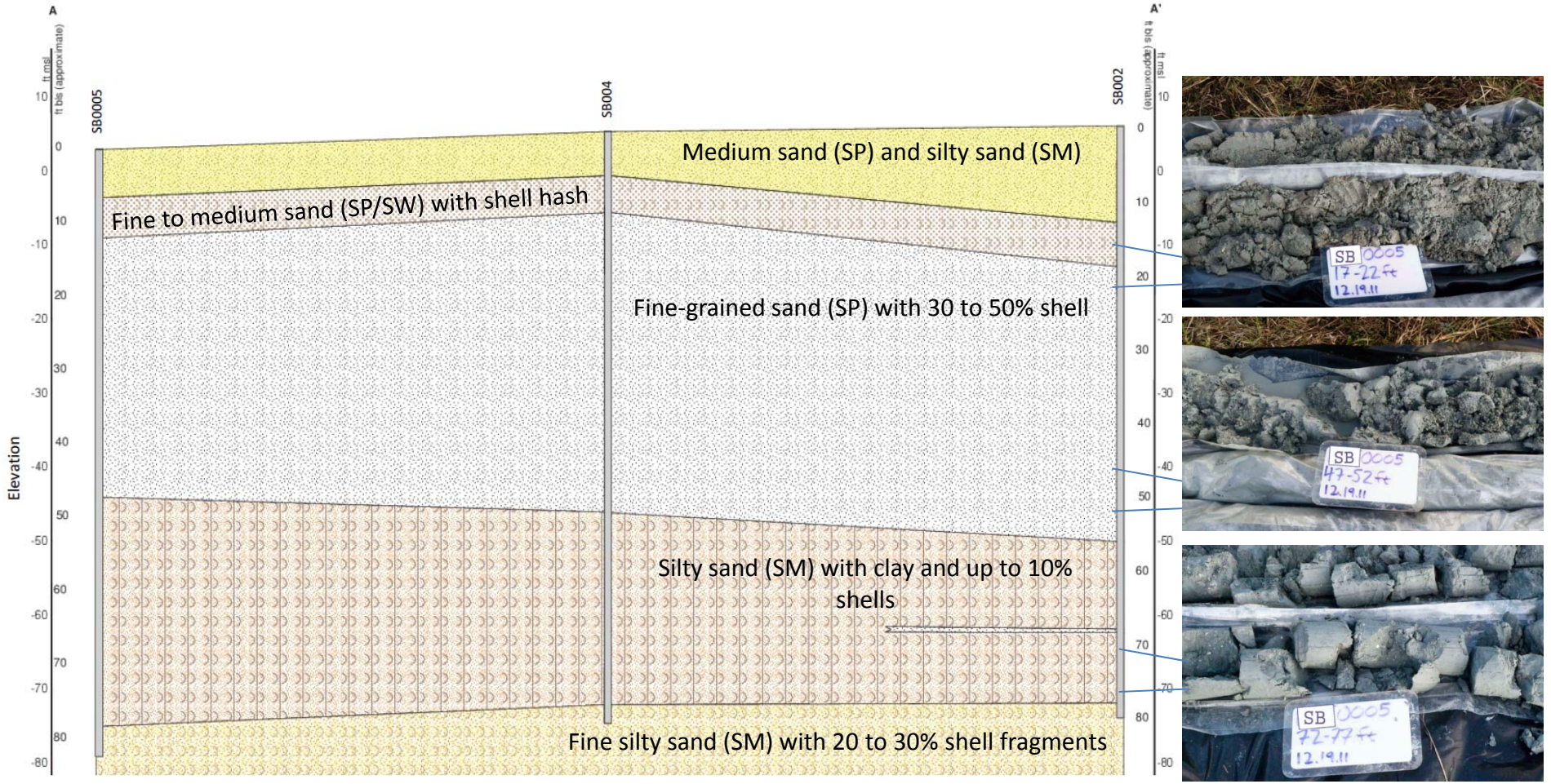


Figure 3

Lithology B to B'

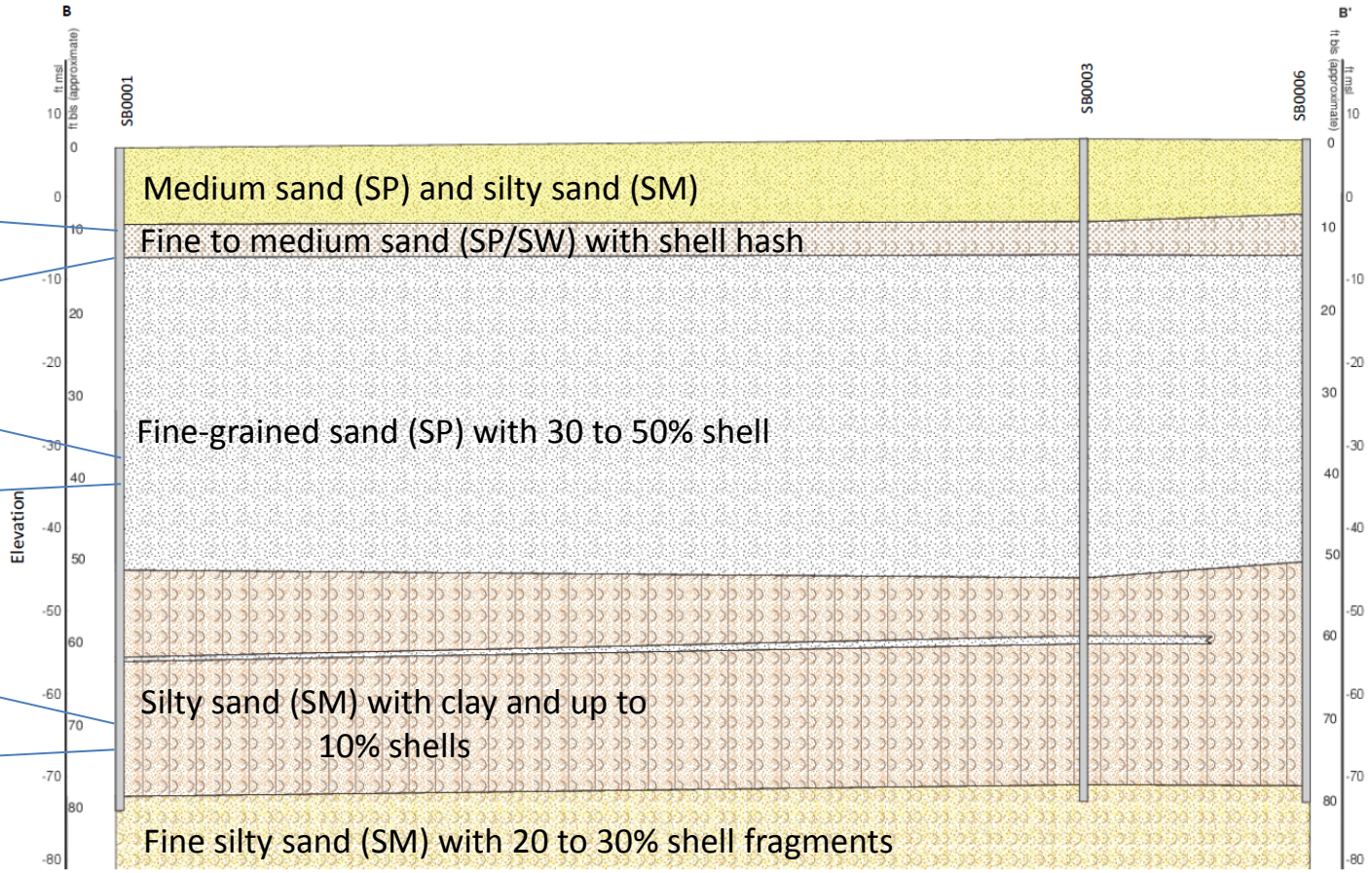


Figure 4

Hydrogeologic Characteristics

- General groundwater flow direction
  - Shallow: west
  - Intermediate: west
  - Deep: southeast (March 2012) and southwest (July 2013)
- Depth to groundwater 2 to 6 ft BLS
- K of 7.6 ft/d (2,774 ft/yr) from specific capacity tests on shallow and intermediate wells during RFI

GW Zone	Approx. Depth (ft, BLS)	Av Gradient (ft/ft)	Est. GW Flow Velocity (ft/y)*
Shallow	<15	0.002	28 ft/y**
Intermediate	15 to 55	0.005	69 ft/y**
Deep	>60	0.002	--

*Based on an assumed effective porosity of 0.2.

**Actual groundwater flow velocity is likely highly variable with higher K plume transport intervals and lower K mass storage intervals.

Current Monitoring Well Network

- 9 shallow (<15 ft BLS) (yellow)
- 21 intermediate (25 to 50 ft BLS) (blue)
- 4 deep wells (>60 ft BLS) (orange)

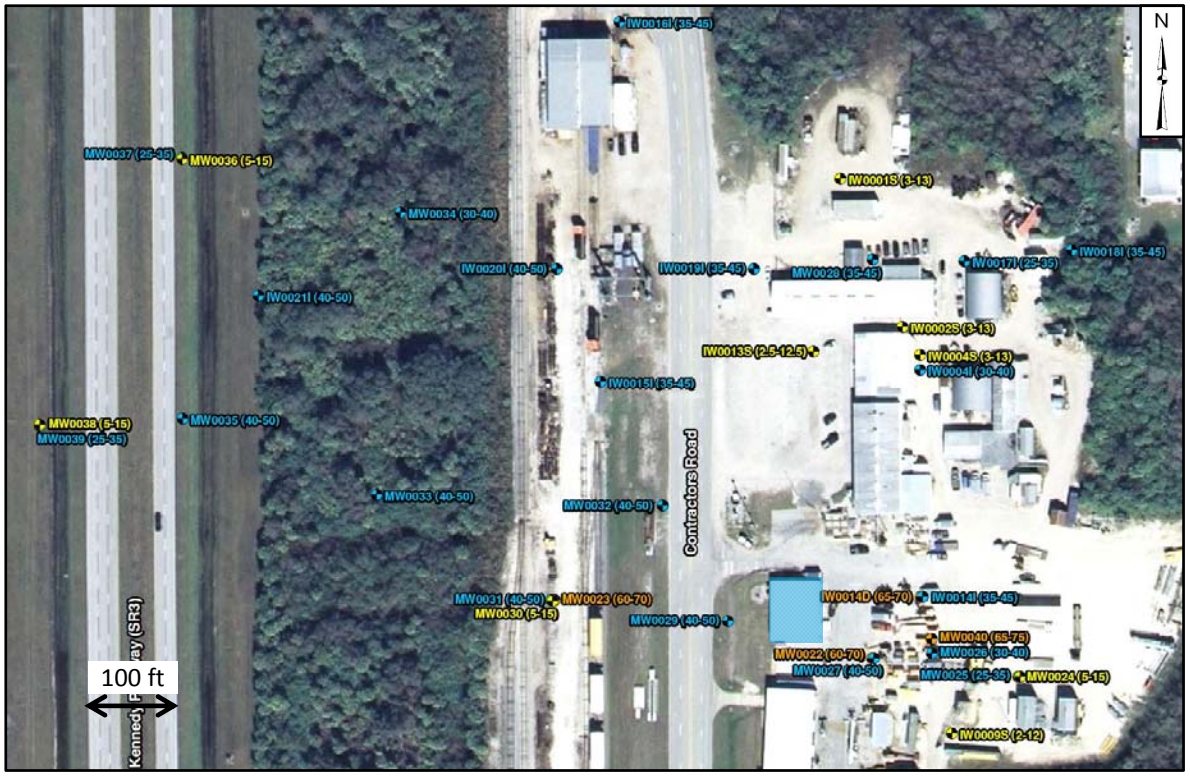
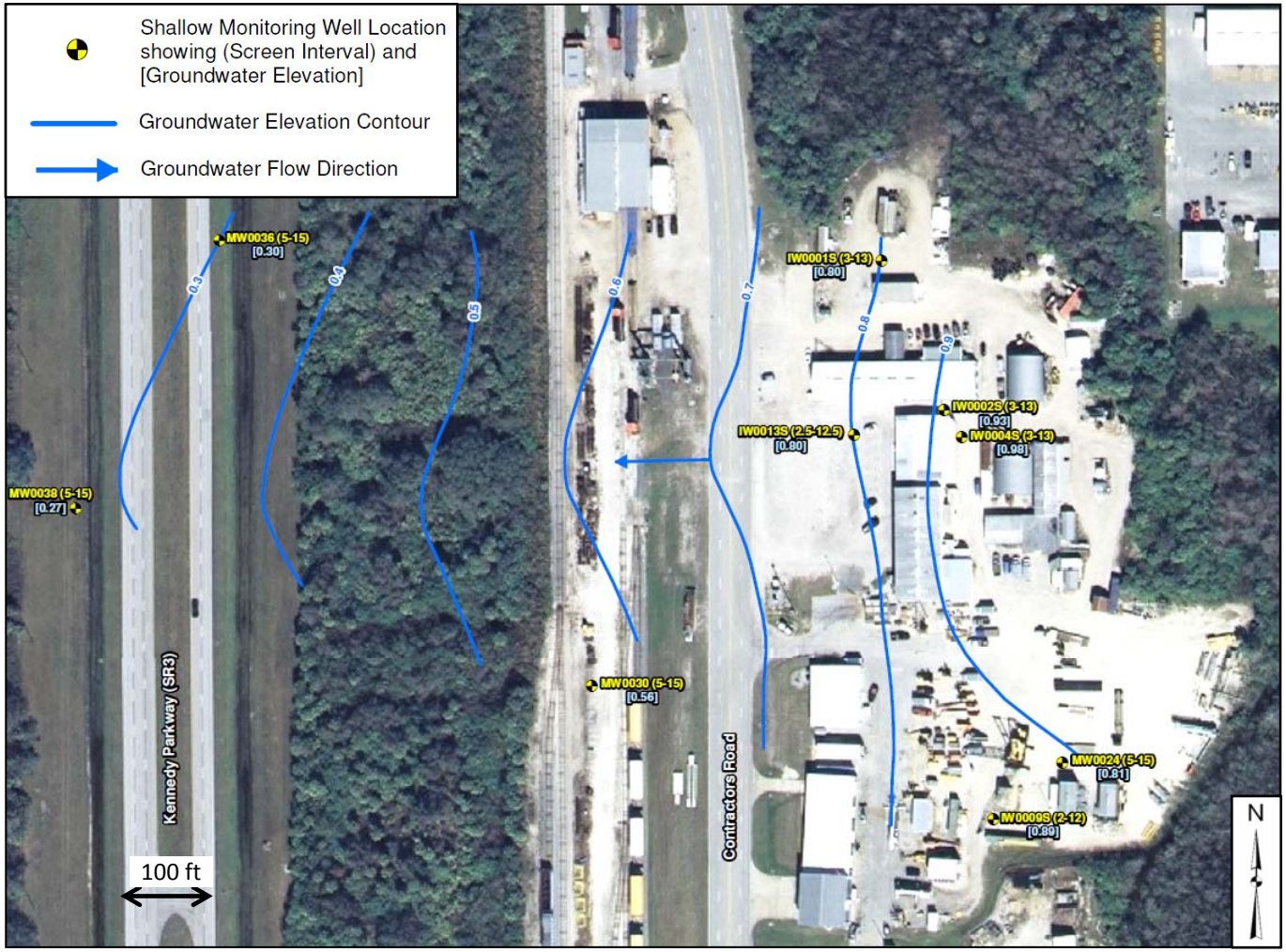


Figure 5

Shallow GW Flow – March 2012



Note:

1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Groundwater elevation is presented in ft and is referenced to the North American Datum of 1988.

Figure 6

Intermediate GW Flow – March 2012

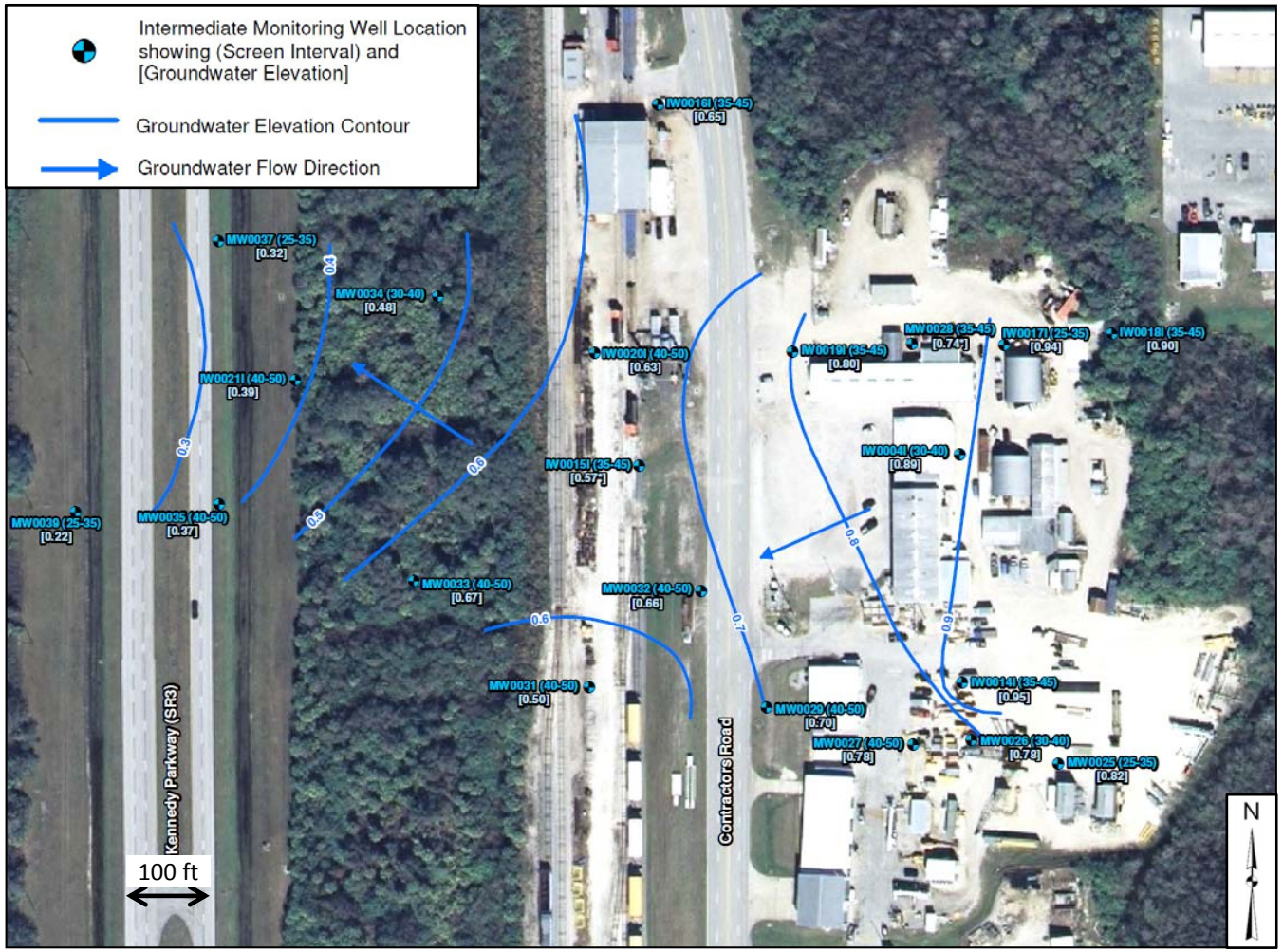


Figure 7

Note:

1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Groundwater elevation is presented in ft and is referenced to the North American Datum of 1988.

Deep GW Flow

March 2012

July 2013

Note:

1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Groundwater elevation is presented in ft and is referenced to the North American Datum of 1988.
3. MW0040 was installed in July 2013.

Figure 8

Monitor Well Sampling

- Site-wide groundwater sampling event completed in March 2012
  - 24 monitor wells sampled
  - Detected concentration ranges:
    - TCE: 0.6 I to 1,000 µg/L in 8 wells
    - cDCE: 0.44 I to 9,700 µg/L in 19 wells
    - VC: 13 to 7,600 µg/L in 17 wells
- HS1 focused sampling and gauging event in July 2013
  - MW0040 sampled
  - 17 wells gauged
- Data gap event sampling in December 2013
  - MW0025; MW0035; MW0029; and IW0019I
  - VOCs, 1,4-dioxane, methane, ethane, ethene, sulfate, sulfide, DHc, and vcrA

Summary of Assessment Activities

- DPT groundwater sampling performed
  - May & July 2006
  - June, July, & August 2009
  - January to March, June, August, & October 2010
  - October 2011
  - January, February, & October 2012
  - March to April & May to June 2013
  - May to June, August, September, & November 2014
- 2,338 samples from 363 DPT locations
  - Generally sampled from 16 to 60 ft BLS at 4 ft intervals
  - Some sampling to 70 ft BLS for vertical delineation

Assessment Activities - 2014

- Activities completed since Step 1 HS1 include:
  - 781 DPT groundwater samples from 97 locations
  - Data gap sampling
  - Implemented MOT plan for sample collection along Kennedy Pkwy and Contractors Rd
  - Land clearing East of Kennedy Pkwy for delineation of HS2

Maximum Site-Wide COC Concentrations

Depth Interval (ft BLS)	Maximum TCE Concentration in µg/L (DPT#)	Maximum cDCE Concentration in µg/L (DPT#)	Maximum VC Concentration in µg/L (DPT#)
8 to 12	79 (0207)	1,000 (0086)	560 (0086)
12 to 16	ND	3,300 (0086)	1,500 (0097)
16 to 20	9,400 (0201)	22,000 (0092)	2,600 (0092)
21 to 28	7,700 (0196, 0217)	68,000 (0217)	6,400 (0214)
26 to 30	13,000 (0200)	110,000 (0200)	8,000 (0196)
31 to 35	21,000 (0100)	58,000 (0200)	19,000 (0200)
34 to 40	160,000 (0072)	59,000 (0100)	17,000 (0100)
41 to 46	19,000 (0247)	15,000 (0196, 0216, 0247)	4,800 (0089)
46 to 50	3,400 (0139)	8,100 (0228)	2,500 (0271)
51 to 55	1,200 (0139)	1,600 (0139)	380 (0330)
56 to 60	1,400 (0217)	6,000 (0217)	270 (0362)
61 to 65	43.8 (0072)	140 (0020)	120 (0020)
66 to 70	33 (0196)	84 (0196)	1.6 (0213)
67 to 71	ND	ND	ND
71 to 75	ND	ND	ND

- Highest detected concentrations are highlighted orange

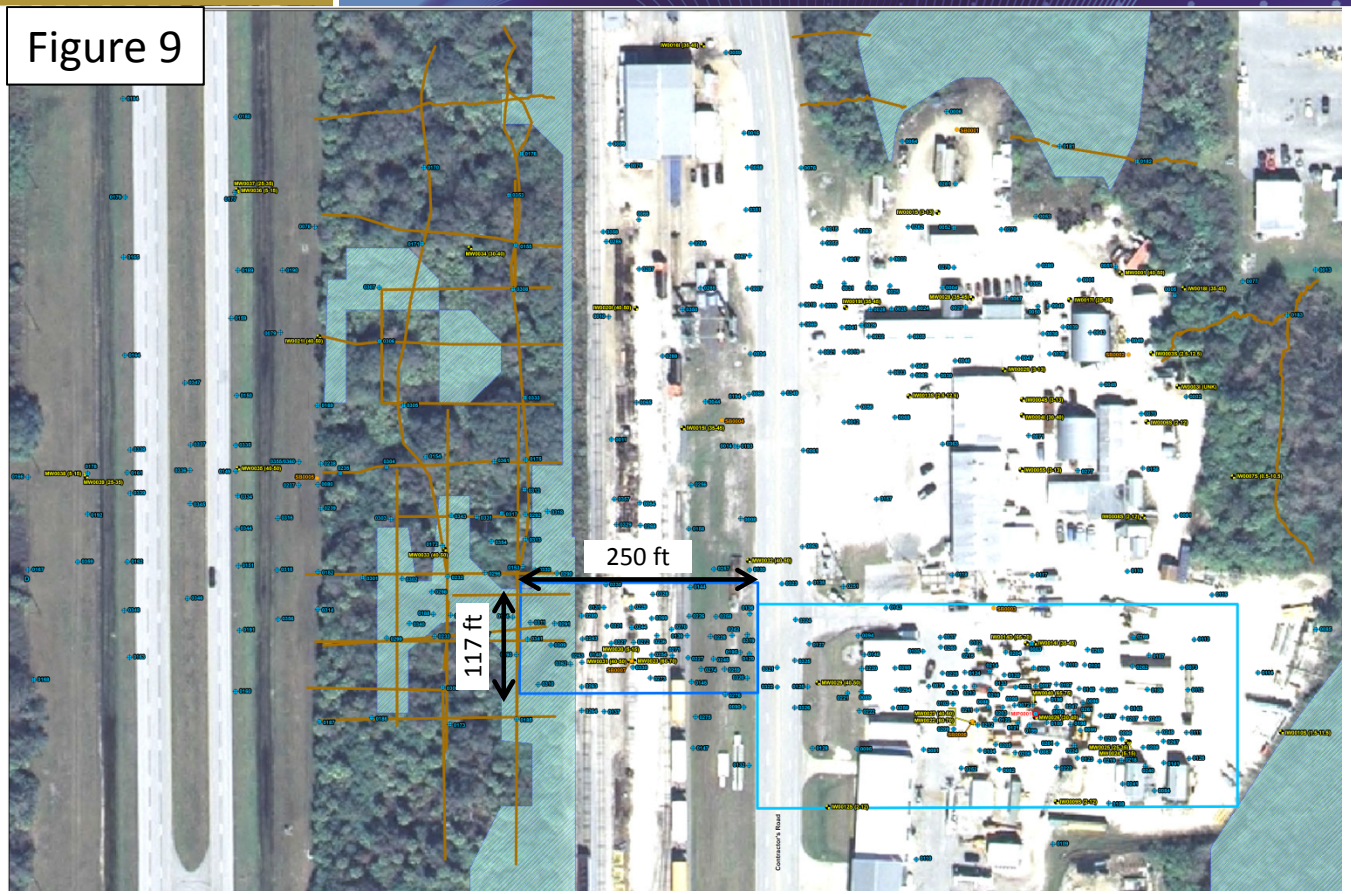
Maximum COC Concentrations- Not Including HS1

Depth Interval (ft BLS)	Maximum TCE Concentration in µg/L (DPT)	Maximum cDCE Concentration in µg/L (DPT)	Maximum VC Concentration in µg/L (DPT)
8 to 12	3.5 (0231)	26 (0226)	1.2 (0226, 0289)
12 to 16	ND	ND	1.5 (0177)
16 to 20	1.5 (0230)	3.0 (0135)	65.0 (0020)
21 to 28	2.3 (0227)	1.4 (0256)	53.6 (0159)
26 to 30	6.1 (0228)	48.2 (0039)	1,500 (0336)
31 to 35	22 (0174)	1,600 (0174)	2,400 (0336)
34 to 40	83 I (0233)	5,700 (0269)	2,500 (0135, 0329, 0331)
41 to 46	1,200 (0269)	9,900 (0231)	4,500 (0271)
46 to 50	3,400 (0139)	8,100 (0228)	2,500 (0271)
51 to 55	1,200 (0139)	1,600 (0139)	380 (0330)
56 to 60	11 (0244)	300 (0362)	270 (0362)
61 to 65	1.9 (0131)	140 (0020)	120 (0020)
66 to 70	1.0 (0242)	7.4 (0244)	0.58 I (0244)
67 to 71	ND	ND	ND
71 to 75	ND	ND	ND

- Highest detected concentrations are highlighted orange
- Maximum TCE concentration in HS2 is two orders of magnitude less than HS1 maximum TCE concentration
- Potentially represents historical dissolved flux from HS1

DPT Sampling Locations

Figure 9



Notes:

1. Tag maps included as Figures 10, 11, 12, and 13 (not included in presentation).
2. Blue shaded areas are generally submerged.
3. Table 1 (attached) provides additional explanation where sample spacing varied from suggested guidance.

Legend

- Membrane Interface Probe (MIP) Location
- Soil Boring Location
- DPT Sampling Location
- Monitoring Well Location (showing screen interval, ft BLS)
- Cleared Trails

Jacobs comment #1: Figure 10 – For locations that have 2 sample dates (i.e. DPT0105), which dataset is included in the tag box?

Response: Each sample date is included in the tag box. Multiple sampling dates at the same locations were employed to collect samples from intervals that had not been sampled.

Data collected on 1/11/12

Data collected on 10/3/12

DPT0174 (Jan-12 & Oct-12)						
Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0 U	1.0 U	1.0 U	2.4	NA	1.4
31 to 35	**10 U**	**22**	**1,600**	48	NA	**720**
36 to 40	**50 U**	**13 U,I**	**2,800**	80	NA	**740**
41 to 45	**50 U**	**31 I**	**2,600**	85	NA	**400**
46 to 50	**20 U**	5 U,I	**1,100**	37	NA	**280**
51 to 55	1.0 U	1.0 U	**170**	3.5	NA	**76**
56 to 60	1.0 U	1.0 U	3.8	1.0 U	NA	1.0 U

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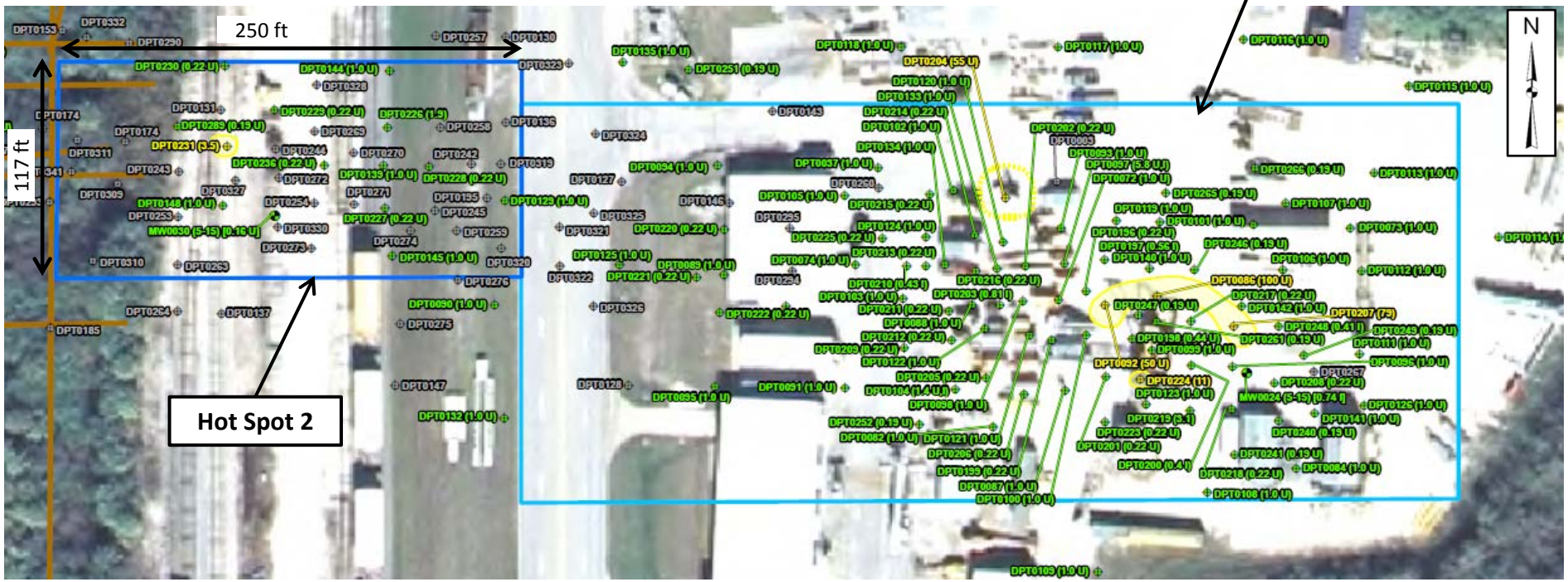
TCE 8 to 16 ft BLS

Figure 14



DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

TCE concentration less than or equal to 3 µg/L

TCE concentration greater than 3 µg/L (GCTL)

TCE concentration greater than 300 µg/L (NADC)

3 µg/L TCE Isopleth based on elevated U values

3 µg/L TCE Isopleth

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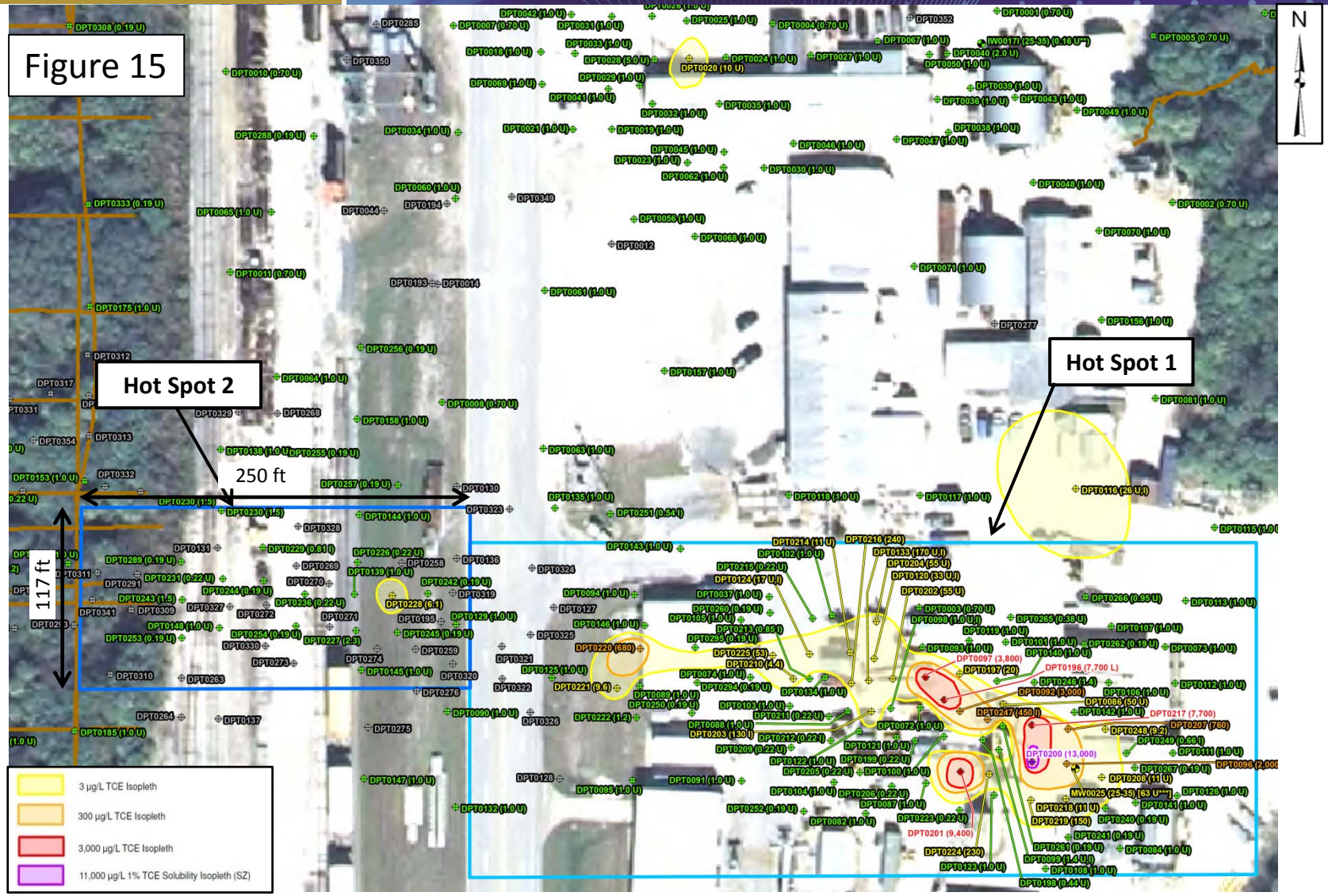
TCE 16 to 30 ft BLS

Figure 15



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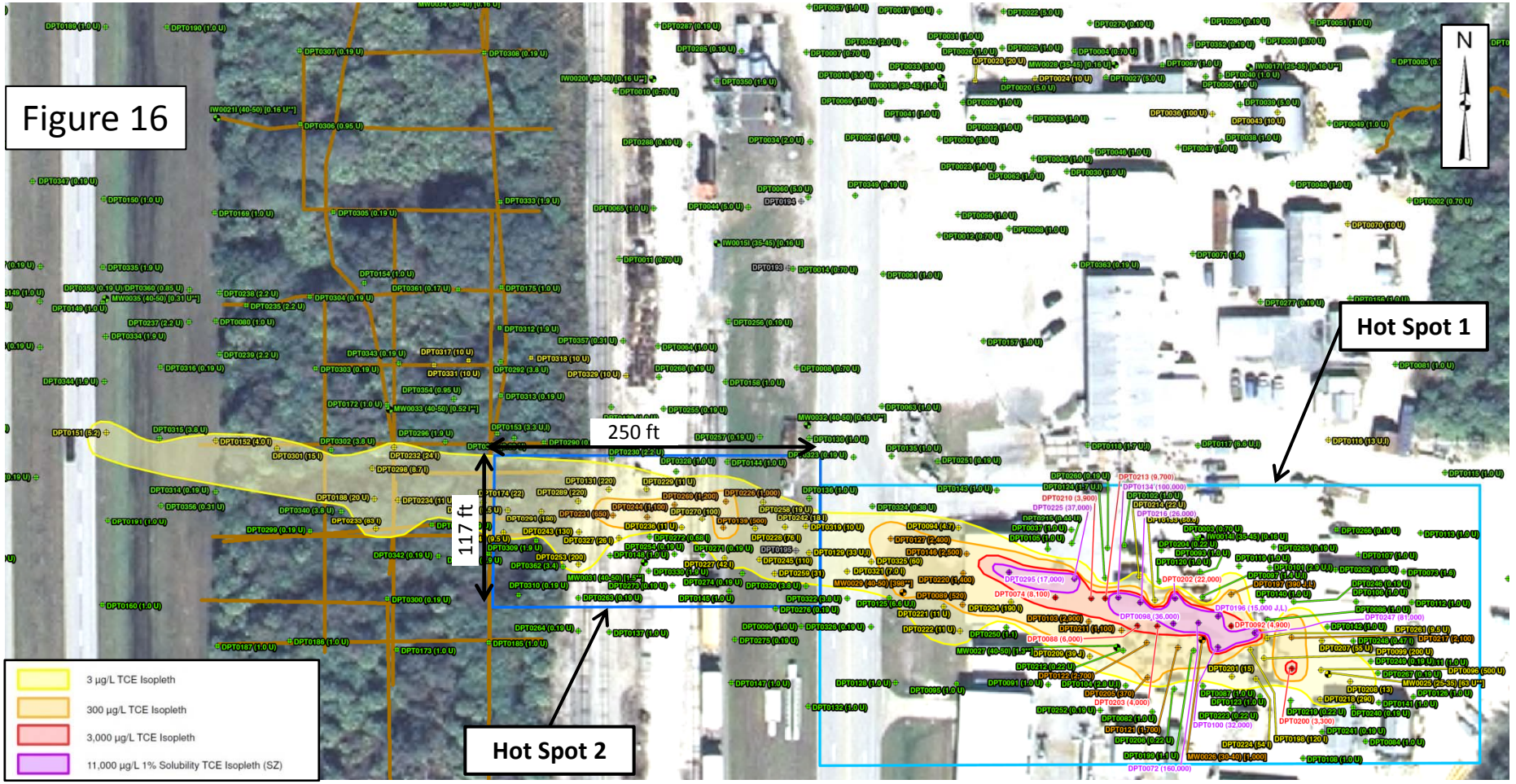
TCE 31 to 46 ft BLS



Note: Based on the conceptual site model, contouring half the detection limit in this interval does not appear appropriate at DPT locations with elevated reporting limits.

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TCE 46 to 56 ft BLS

Figure 17

Response to Comment

Jacobs comment #2: Slide 31/Figure 18 (new Slide 35) **[a]** According to Figure 13, the TCE result of 3.6 µg/L at DPT0227 is from the 46-50 ft bls interval, not "greater than 56 ft bls." No data is shown for DPT0227 past the 46-50 ft bls interval on Figure 13, so it appears that it should be "gray" on Figure 18. **[b]** It is understood that "note #8" on this figure explains that the data shown is from the bottom depth interval for each location. However, consider showing the highest result from the intervals sampled below 56 ft bls. In this case, for a location like DPT0244, which had two depths sampled below 56 ft bls (56-60 ft bls and 66-70 ft bls), the TCE data from the 56-60 ft bls interval would be shown (11 µg/L) and would be part of the 3 µg/L isopleth. Currently, the figure shows the TCE data (0.74 µg/L) for the lowest interval (66-70 ft bls) and is, therefore, not part of the 3 µg/L isopleth.

Response:

[a] Comment noted; Figure 13 has been updated.

[b] Comment noted; the objective of this figure is to show vertical delineation. If the highest detection in this mapping interval is shown, it may give the impression that delineation has not been achieved.

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TCE Greater than 56 ft BLS

Figure 18

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cDCE 8 to 16 ft BLS

Figure 19

70 µg/L cDCE Isopleth

700 µg/L cDCE Isopleth

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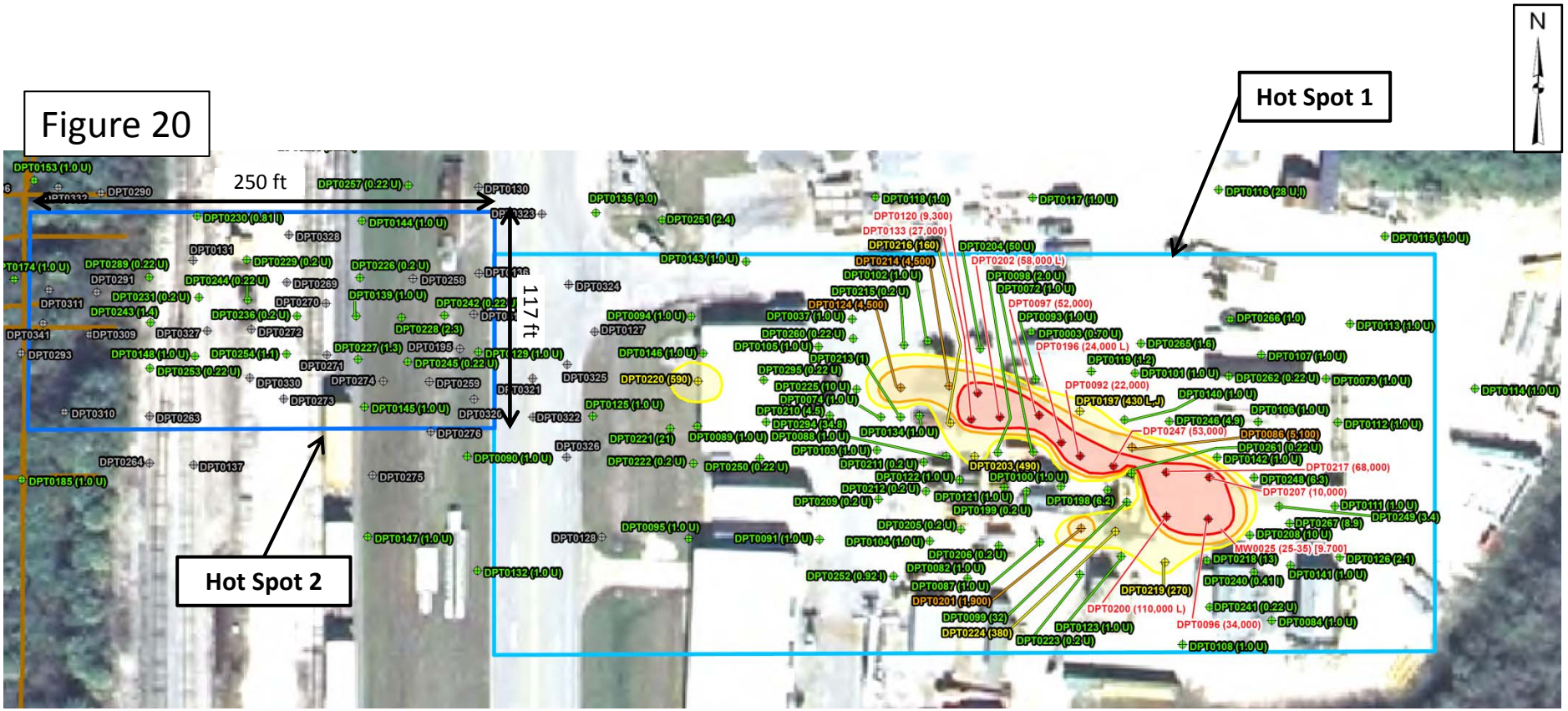
cDCE 16 to 30 ft BLS

Figure 20



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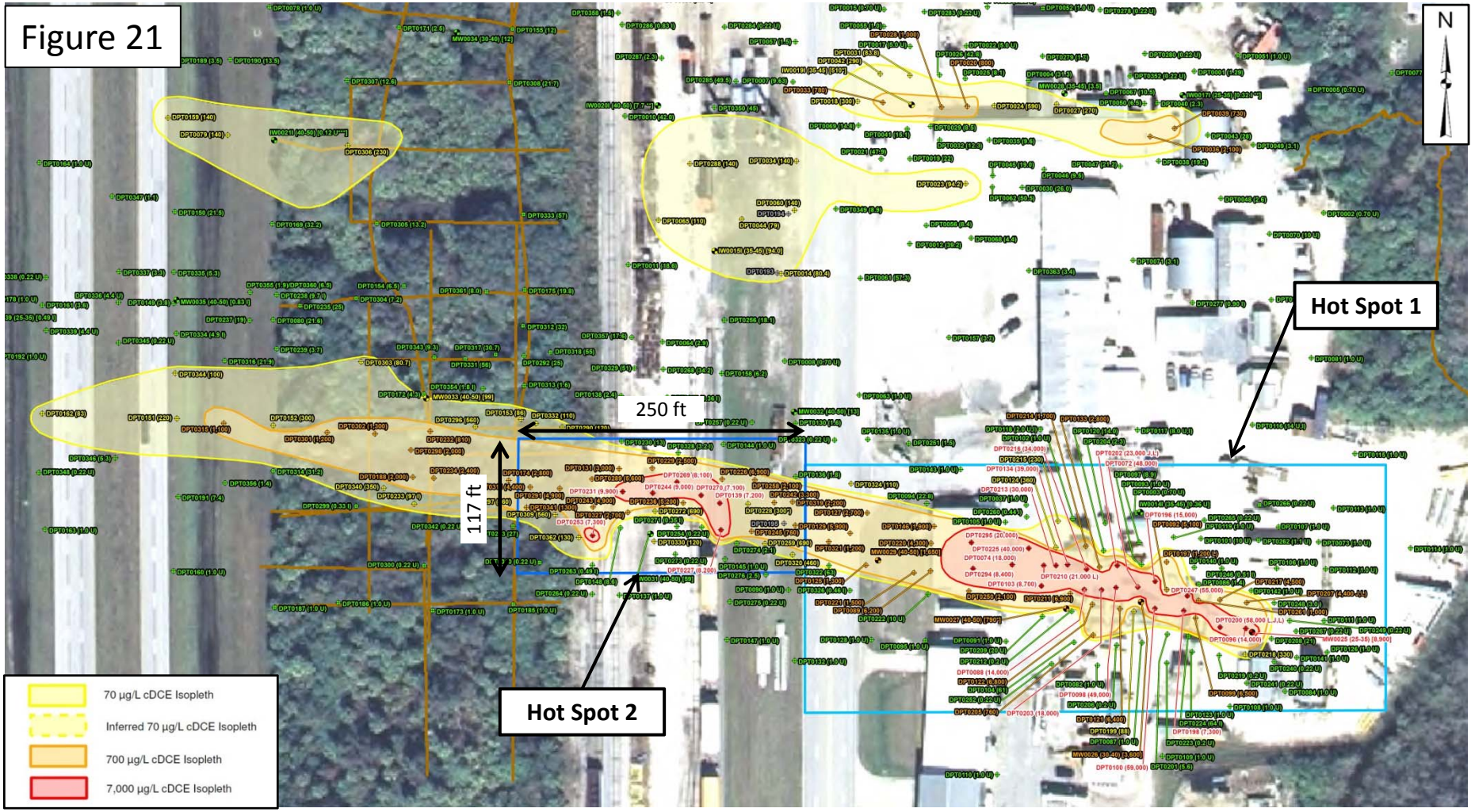
cDCE 31 to 46 ft BLS

Figure 21



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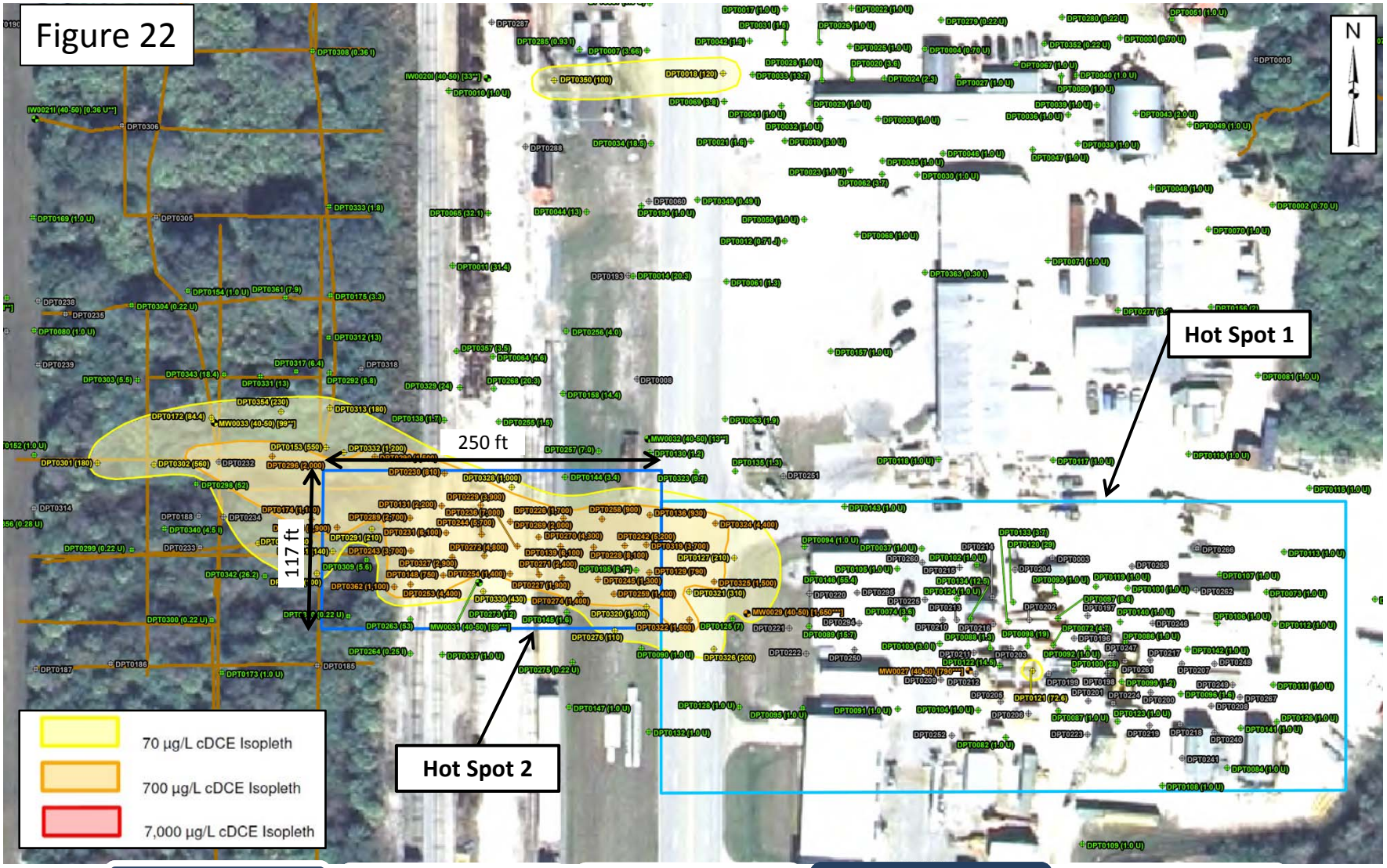
cDCE 46 to 56 ft BLS

Figure 22



Jacobs comment #3: Slide 36/Figure 23 (new Slide 41) - It is understood that "note #8" on this figure explains that the data shown is from the bottom depth interval for each location. However, consider showing the highest result from the intervals sampled below 56 ft bls. In this case, for a location like DPT0244, which had two depths sampled below 56 ft bls (56-60 ft bls and 66-70 ft bls), the cDCE data from the 56-60 ft bls interval would be shown (110 µg/L) and would be part of the 70 µg/L isopleth. Currently, the figure shows the cDCE data (7.4 µg/L) for the lowest interval (66-70 ft bls) and is, therefore, not part of the 70 µg/L isopleth.

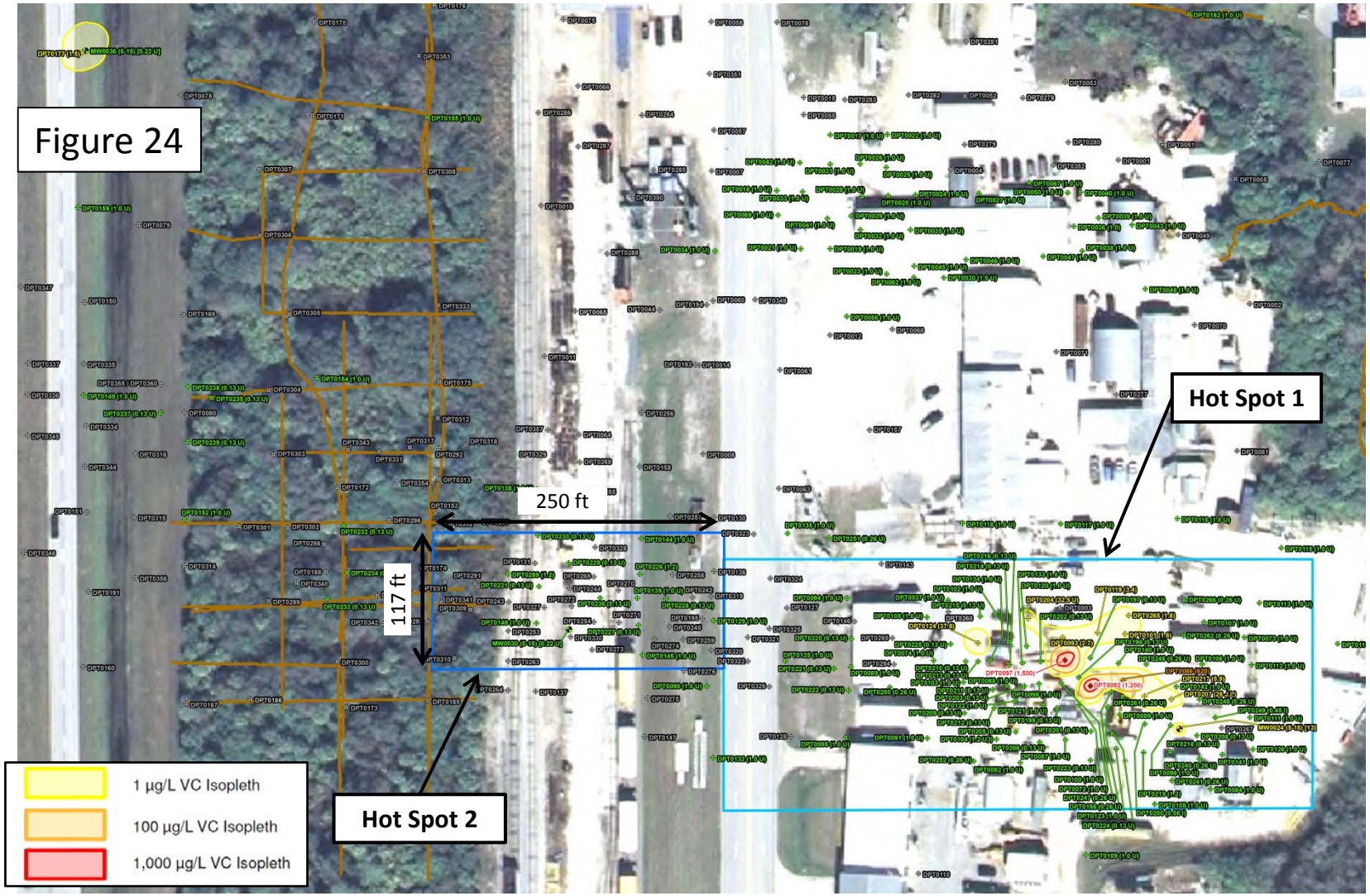
Response: See response 2[b].

cDCE Greater than 56 ft BLS

Figure 23

Geosyntec consultants

VC 8 to 16 ft BLS



Response to Comment

TetraTech comment #3: Slide 38 (new slide 44) - **[a]** Should the LCP plume be shown as inferred south of DPT0044, **[b]** west of DPT0146/0220, **[c]** east of DPT0135? Samples were not collected from this [mapping] interval at those locations. **[d]** Additionally, the DPT spacing around DPT0336 does not appear to meet KSC spacing conventions. **[e]** For consistency, the LCP should be extended to include DPT0179 (e.g., DPT0162 was included).

Response: [a] Geosyntec does not agree that the LCP should be shown as inferred S of DPT0044. The distance between DPT0060 and DPT0065, which both had VC concentrations below 2.0 µg/L in this mapping interval, is approximately 120 ft. Based on the VC concentrations at DPT0060 and DPT0065 and at the following locations, the LCP is delineated in this area: 31-35 ft BLS interval from DPT0044 (2.3 µg/L), 31-35 ft BLS interval from DPT0014 (0.80 U µg/L), and 26-30 ft BLS interval from DPT0011 (0.80 U µg/L).

The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 31-35 ft BLS intervals of DPT0044 and DPT0014 for lateral delineation interpretation.

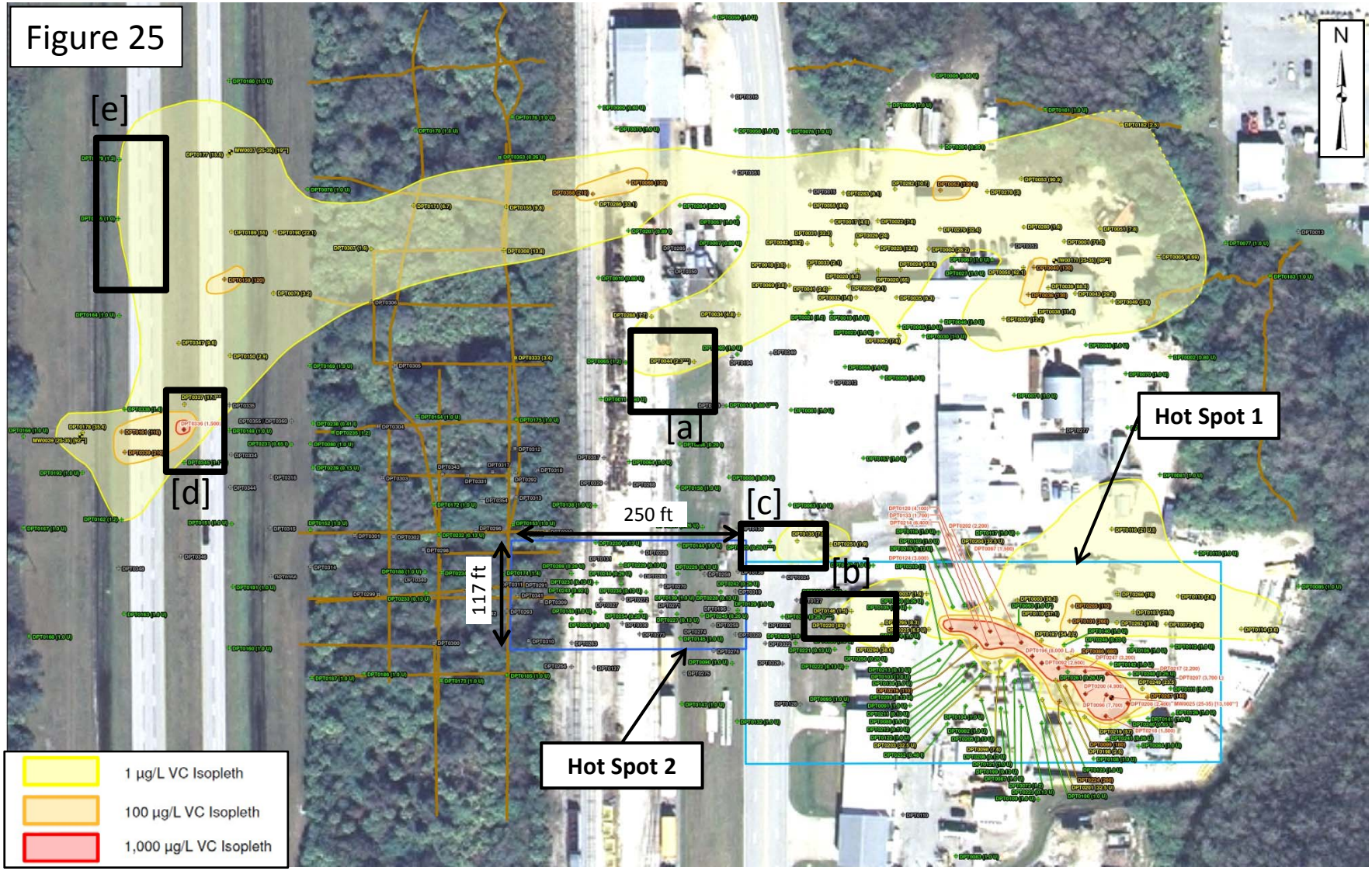
[b] Geosyntec does not agree that the LCP should be shown as inferred W of DPT0146/220 based on the VC concentration in the 36-40 ft BLS interval from DPT0325 (0.26 U µg/L). The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 36-40 ft BLS interval of DPT0325 for lateral delineation interpretation.

[c] Geosyntec does not agree that the LCP should be shown as inferred W of DPT0135 based on the VC concentration in the 36-40 ft BLS interval from DPT0323 (0.26 U µg/L). The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 36-40 ft BLS interval of DPT0323 for lateral delineation interpretation.

[d] Comment noted; although DPT spacing around DPT0336 shown on the 16-30 ft BLS interval map does not meet the specific spacing suggestion in the Step process, VC detections at DPT0337 (17.7 µg/L) and DPT0345 (1.1 µg/L) from the 31-35 ft BLS interval (i.e. the interval immediately below the 1,500 µg/L VC detection in DPT0336) indicate that the current contour interpretation is valid. The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 31-35 ft BLS intervals of DPT0337 and DPT0345 for lateral delineation interpretation. If an interim measure is necessary in this area, additional sampling may be completed at that time.

[e] Comment noted; the VC 16-30 ft BLS plume map was adjusted slightly to include DPT0179 and DPT0165 in the 1.0 µg/L contour; however, this does not represent a material impact to the LCP.

VC 16 to 30 ft BLS



Response to Comment

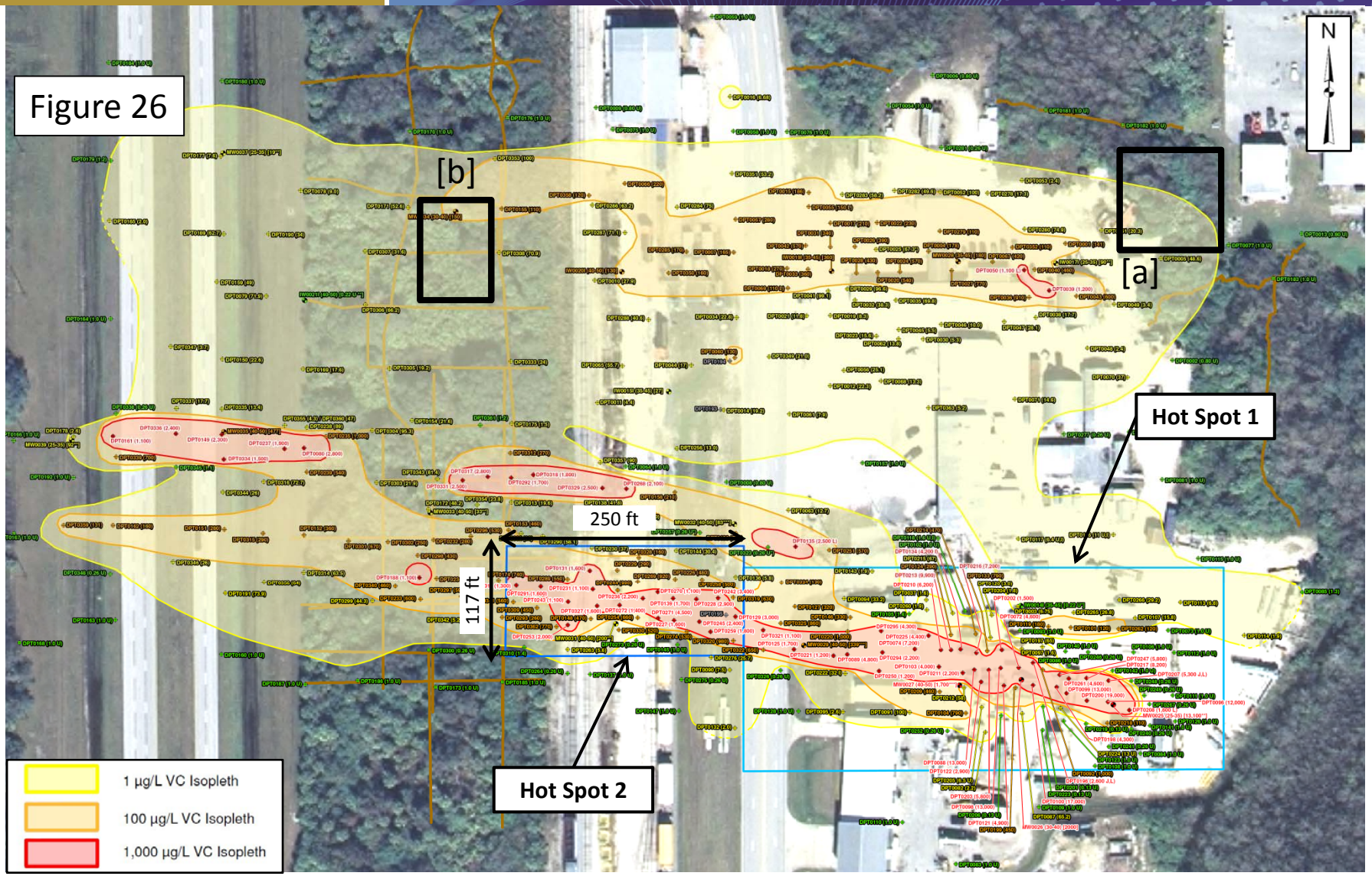
TetraTech comment #4: Slide 39 (new Slide 46) - [a] Suggest showing LCP as inferred in the northeast most portion of the LCP northeast of DPT005, as there are not points bounding the plume in this direction between DPT0182 and DPT0077. [b] Please also identify the area south of MW0034 as a data gap, as the HCP is not delineated to the south of this location.

Response: [a] Geosyntec's contour interpretation of the peripheral DPT locations in this area is based on observed VC concentrations less than 1.0 µg/L in DPT0181, DPT0182, DPT0077, and DPT0013.

[b] Comment noted. Geosyntec agrees that there is not a DPT location that meets the specific spacing suggestion in the Step process south of MW0034. However, given the VC concentrations detected in DPT0307 (31.6 µg/L) and DPT0308 (70.9 µg/L), we are comfortable with the delineation as presented. Sampling in this area has not occurred to date due to wetland conditions. If accessible, additional sampling may be conducted at a later date, if needed.

Geosyntec consultants

VC 31 to 46 ft BLS



Response to Comment

TetraTech comment #5: Slide 40 (new Slide 49) - [a] The HCP is not bound in the northern direction of DPT0301 and DPT0302 to the north and northwest. Suggest more conservative contouring in this area as well as identification of data gap. [b] We also suggest south of DPT0350 and IW0020I be identified as an HCP data gap, as data is not available in this direction near the referenced locations.

Response: [a] Geosyntec agrees that there is a data gap at this location when comparing to the specific spacing suggestions in the Step process; however, this data gap can be filled at a later date, if needed. The VC 46-56 ft BLS plume map has been updated with more conservative contouring.

[b] Geosyntec agrees that there is not a DPT location that meets the specific spacing suggestion in the Step process in this area of the 46-56 ft BLS mapping interval; however, based on the VC detections in the 41-45 ft BLS interval at DPT0288 (40.6 µg/L) and 46-50 ft BLS interval at DPT0010 (48.4 µg/L), we are comfortable with the delineation as presented.

Response to Comment

TetraTech comment #6: Slide 40 (new Slide 49) - Agree with inferred plume boundary along southwestern tail near DPT0163. Suggest plume boundaries be shown as inferred boundaries near DPT0264 and around DPT0016 (northern isolated detection)?

Response: Comment noted; plume boundary near DPT0264 and around DPT0016 shown as inferred.

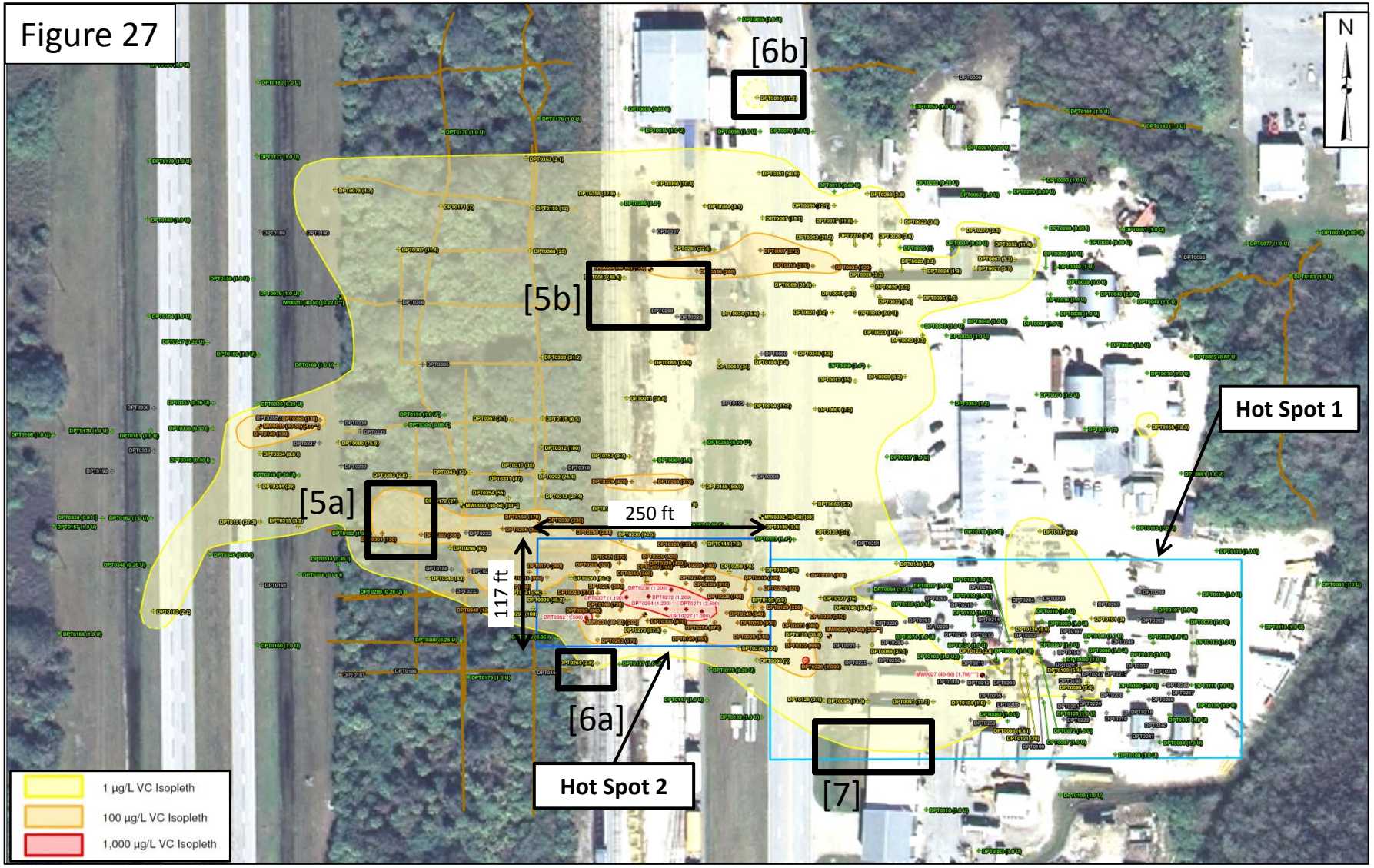
TetraTech comment #7: Slide 40 (new Slide 49) - The LCP south of the Hot Spot 1 area appears to not be delineated, as the plume south of DPT0091 and DPT0095 is not bound to the south by single-digit detections.

Response: DPT0110 meets the spacing requirements of S of DPT0091 and our request to collect a sample S of DPT0095 was denied due to utilities. Based on the results at DPT0110 and our understanding of the conceptual site model, we are comfortable with the delineation presented.

Geosyntec consultants

VC 46 to 56 ft BLS

Figure 27



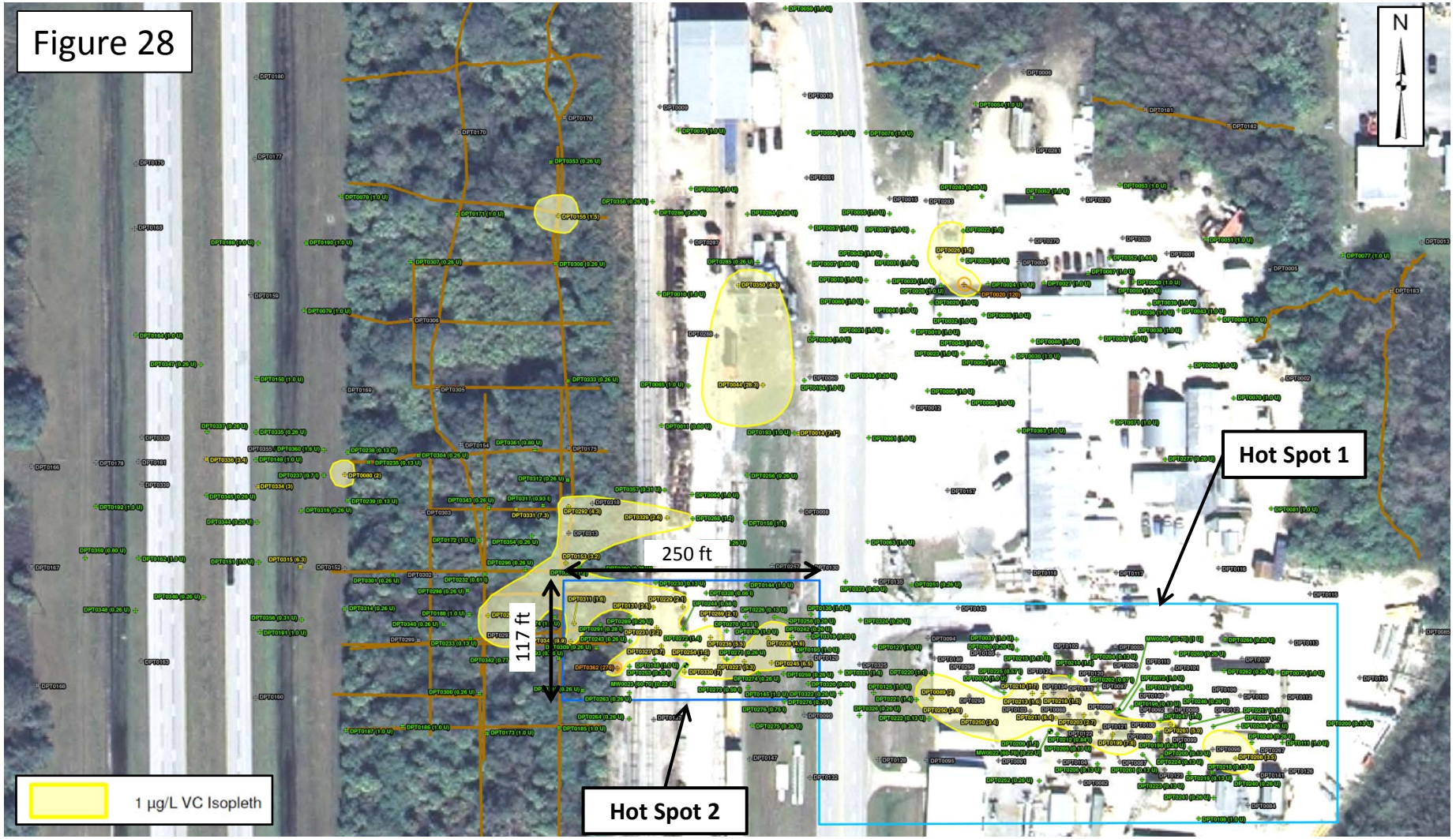
Jacobs comment #4: Slide 41/Figure 28 (new Slide 51) - It is understood that "note #10" on this figure explains that the data shown is from the bottom depth interval for each location. However, consider showing the highest result from the intervals sampled below 56 ft bls. In this case, for a location like DPT0244, which had two depths sampled below 56 ft bls (56-60 ft bls and 66-70 ft bls), the VC data from the 56-60 ft bls interval would be shown (10 µg/L) and would be part of the 1 µg/L isopleth. Currently, the figure shows the VC data 0.58 µg/L) for the lowest interval (66-70 ft bls) and is, therefore, not part of the 1 µg/L isopleth.

Response: See response 2[b].

Geosyntec consultants

VC Greater than 56 ft BLS

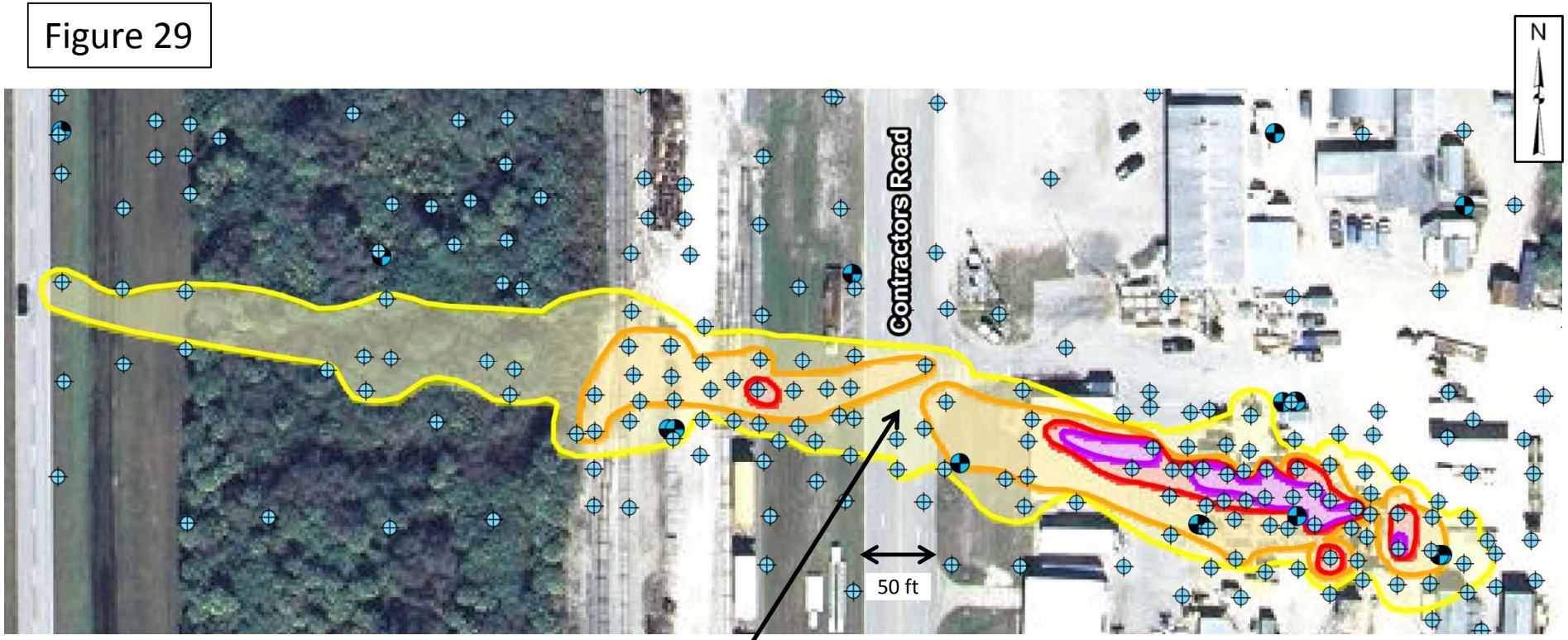
Figure 28



Geosyntec consultants

Composite TCE Plume

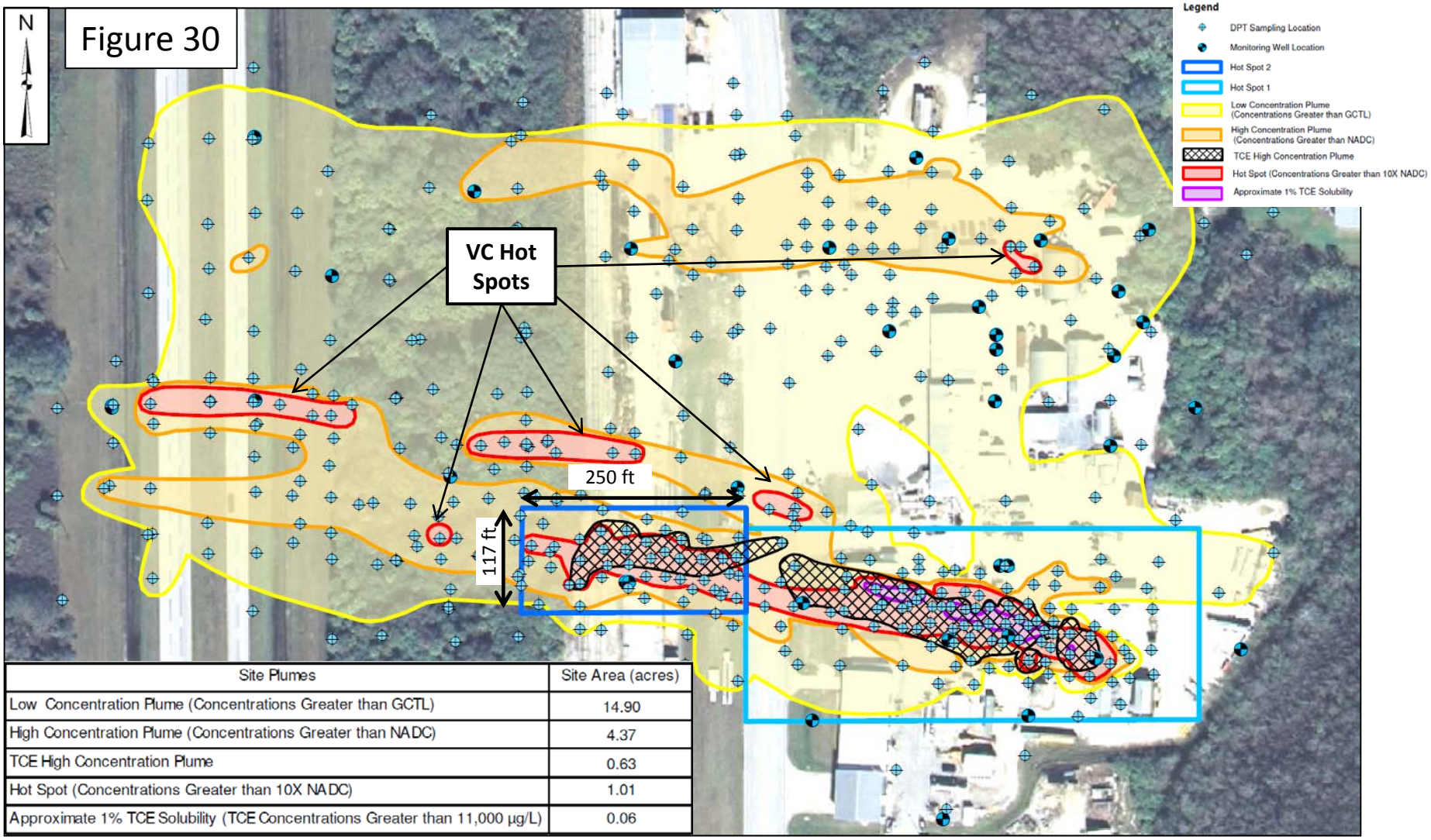
Figure 29



Note: Separation of HCP contours is due to a difference in the depth interval of associated impacts.

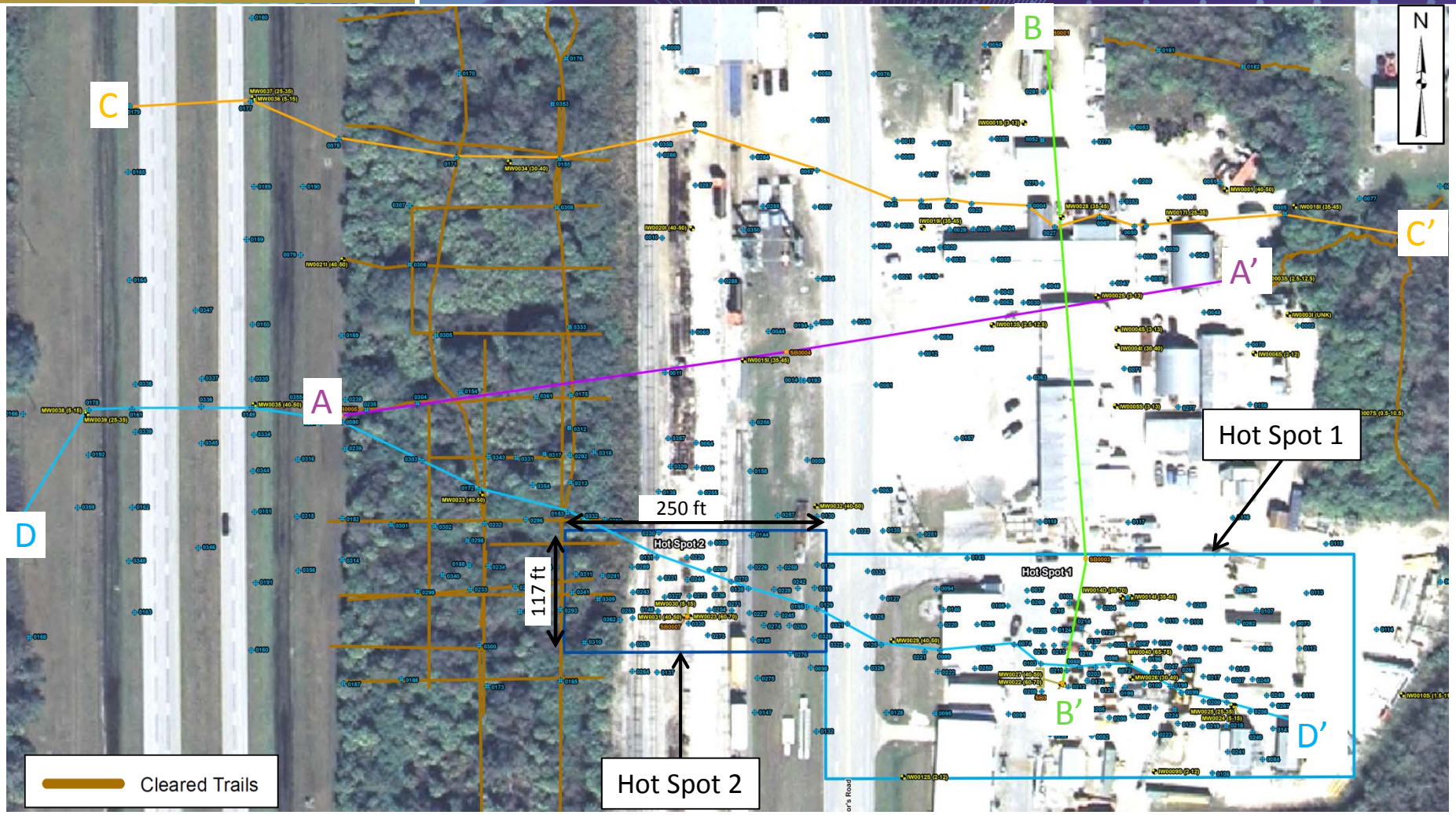
Overall Combined Depth CVOC Plume Map

Figure 30



Site Plumes	Site Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	14.90
High Concentration Plume (Concentrations Greater than NADC)	4.37
TCE High Concentration Plume	0.63
Hot Spot (Concentrations Greater than 10X NADC)	1.01
Approximate 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.06

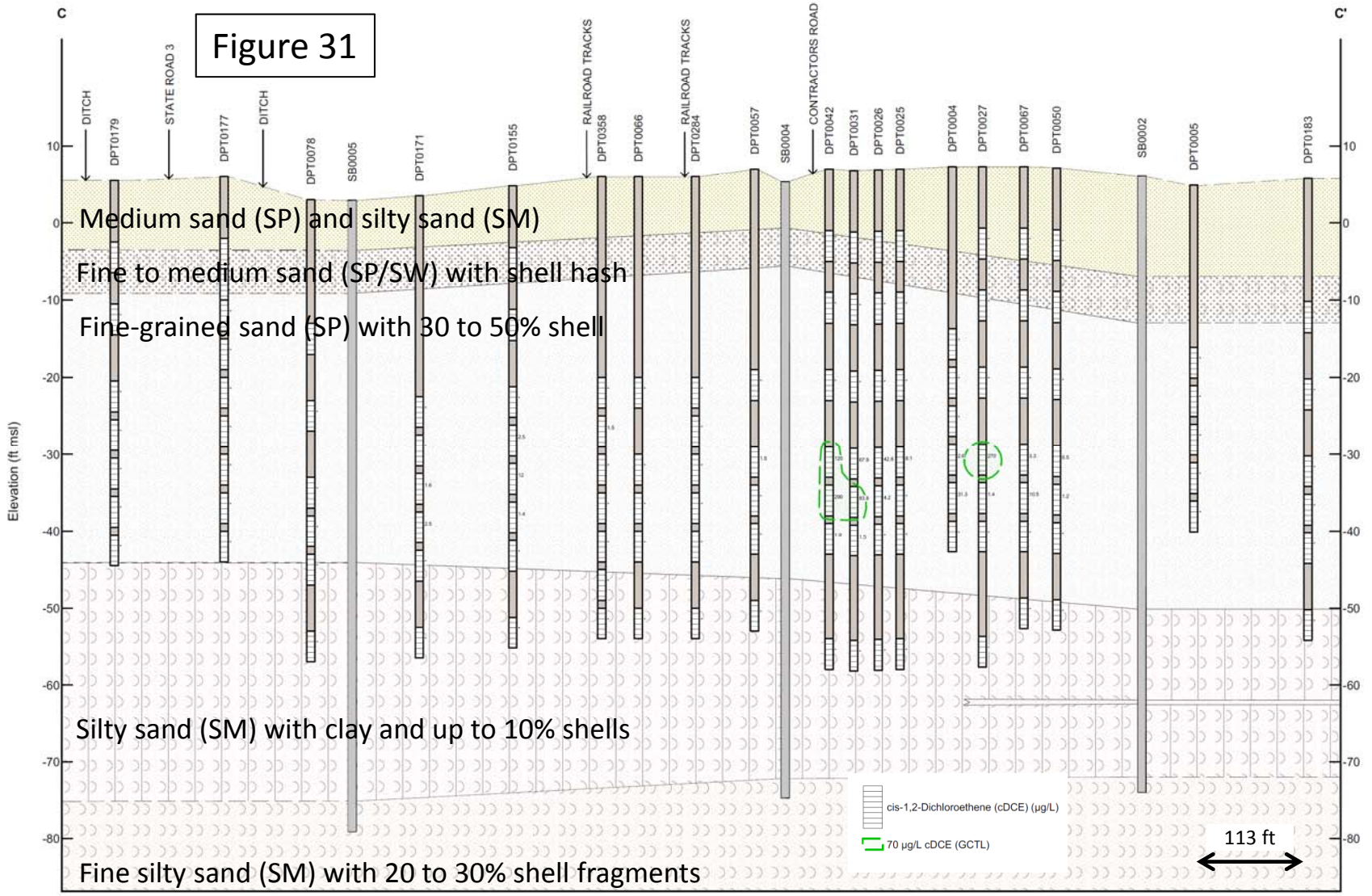
Cross Section Locations



Note: Cross sections A to A' and B to B' display lithology only; cross sections C to C' and D to D' display subsurface plume profiles.

C to C' – cDCE

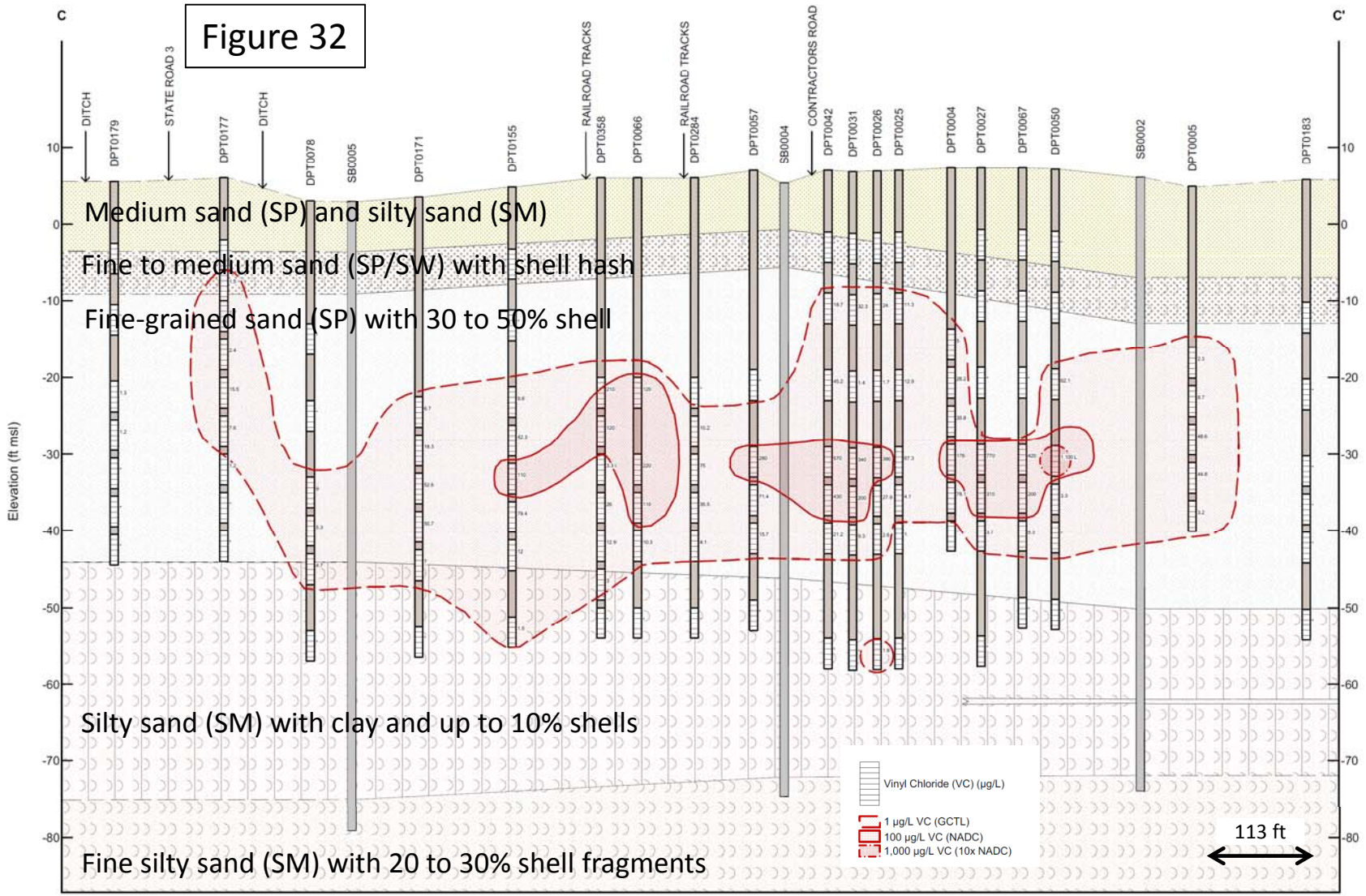
Figure 31



Geosyntec consultants

C to C' – VC

Figure 32



D to D' – TCE

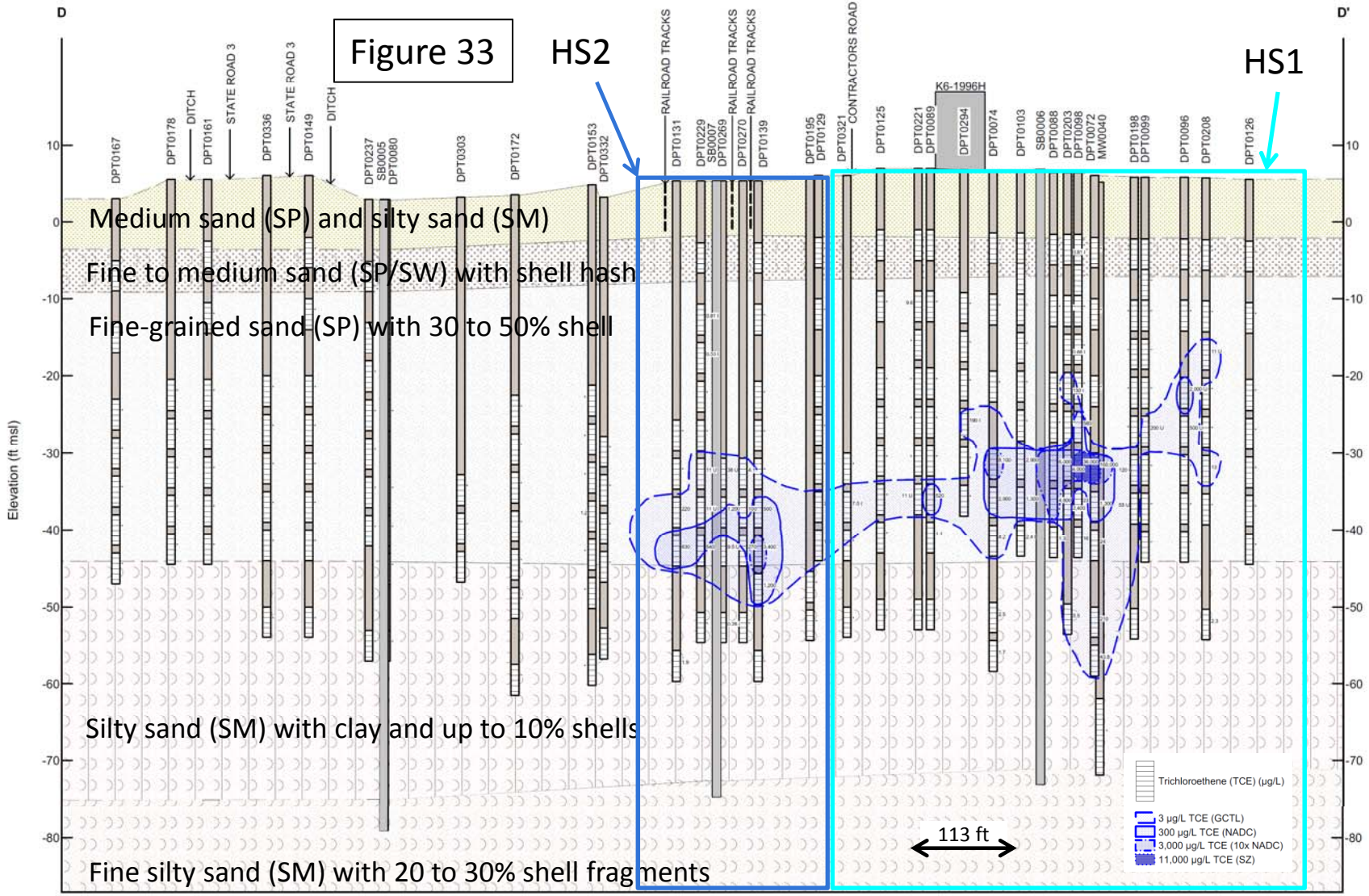


Figure 33
HS2
HS1
D
D'
Medium sand (SP) and silty sand (SM)
Fine to medium sand (SP/SW) with shell hash
Fine-grained sand (SP) with 30 to 50% shell
Silty sand (SM) with clay and up to 10% shells
Fine silty sand (SM) with 20 to 30% shell fragments
Elevation (ft msl)
RAILROAD TRACKS
CONTRACTORS ROAD
STATE ROAD 3
DITCH
K6-1996H
113 ft
Trichloroethene (TCE) (µg/L)
3 µg/L TCE (GCTL)
300 µg/L TCE (NADC)
3,000 µg/L TCE (10x NADC)
11,000 µg/L TCE (SZ)

D to D' – cDCE

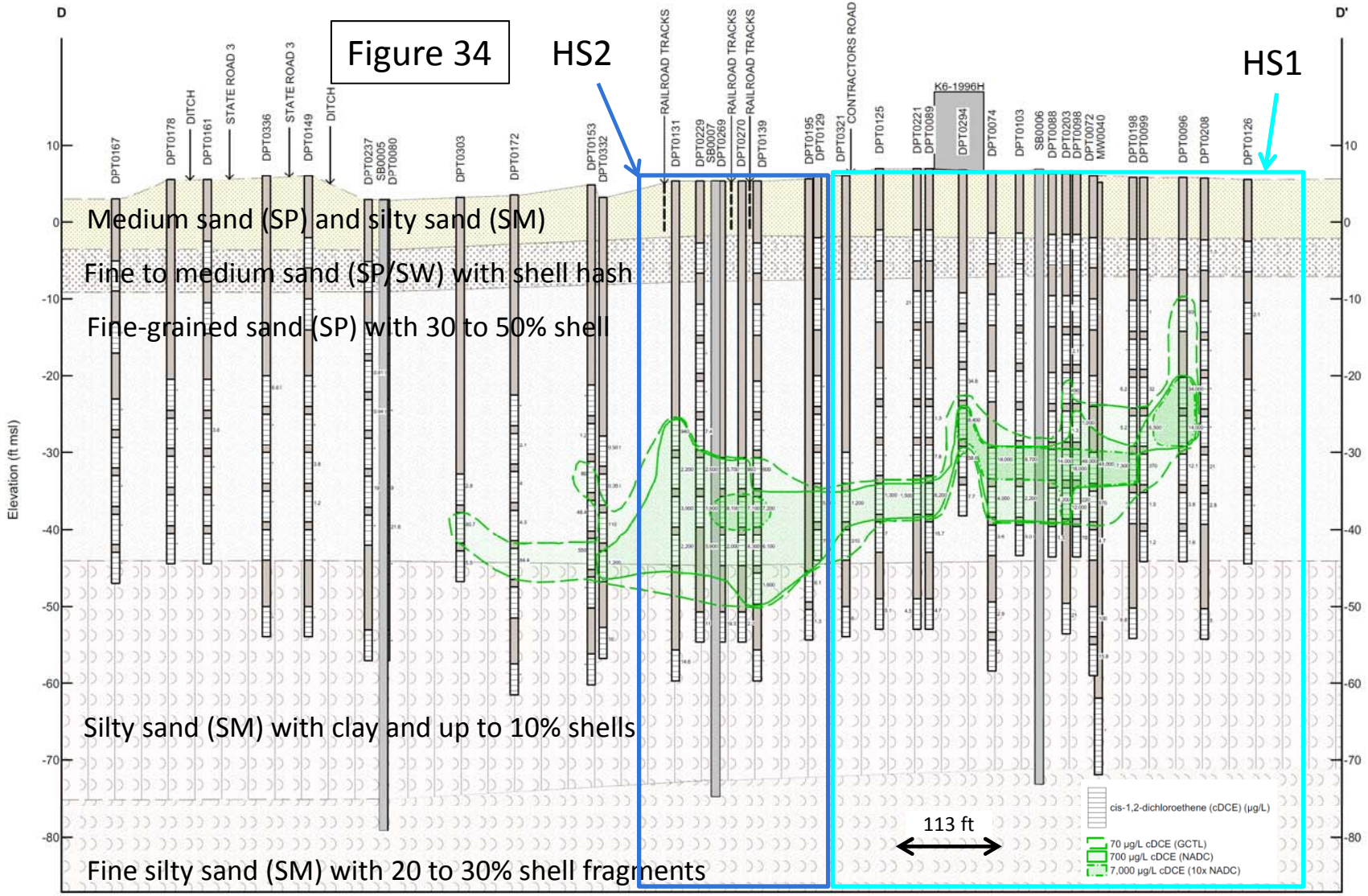


Figure 34
HS2
HS1
D
D'
Elevation (ft msl)
Medium sand (SP) and silty sand (SM)
Fine to medium sand (SP/SW) with shell hash
Fine-grained sand (SP) with 30 to 50% shell
Silty sand (SM) with clay and up to 10% shells
Fine silty sand (SM) with 20 to 30% shell fragments
113 ft
cis-1,2-dichloroethene (cDCE) (µg/L)
70 µg/L cDCE (GCTL)
700 µg/L cDCE (NADC)
7,000 µg/L cDCE (10x NADC)
RAILROAD TRACKS
CONTRACTORS ROAD
DITCH
STATE ROAD 3
K6-1996H

D to D' – VC

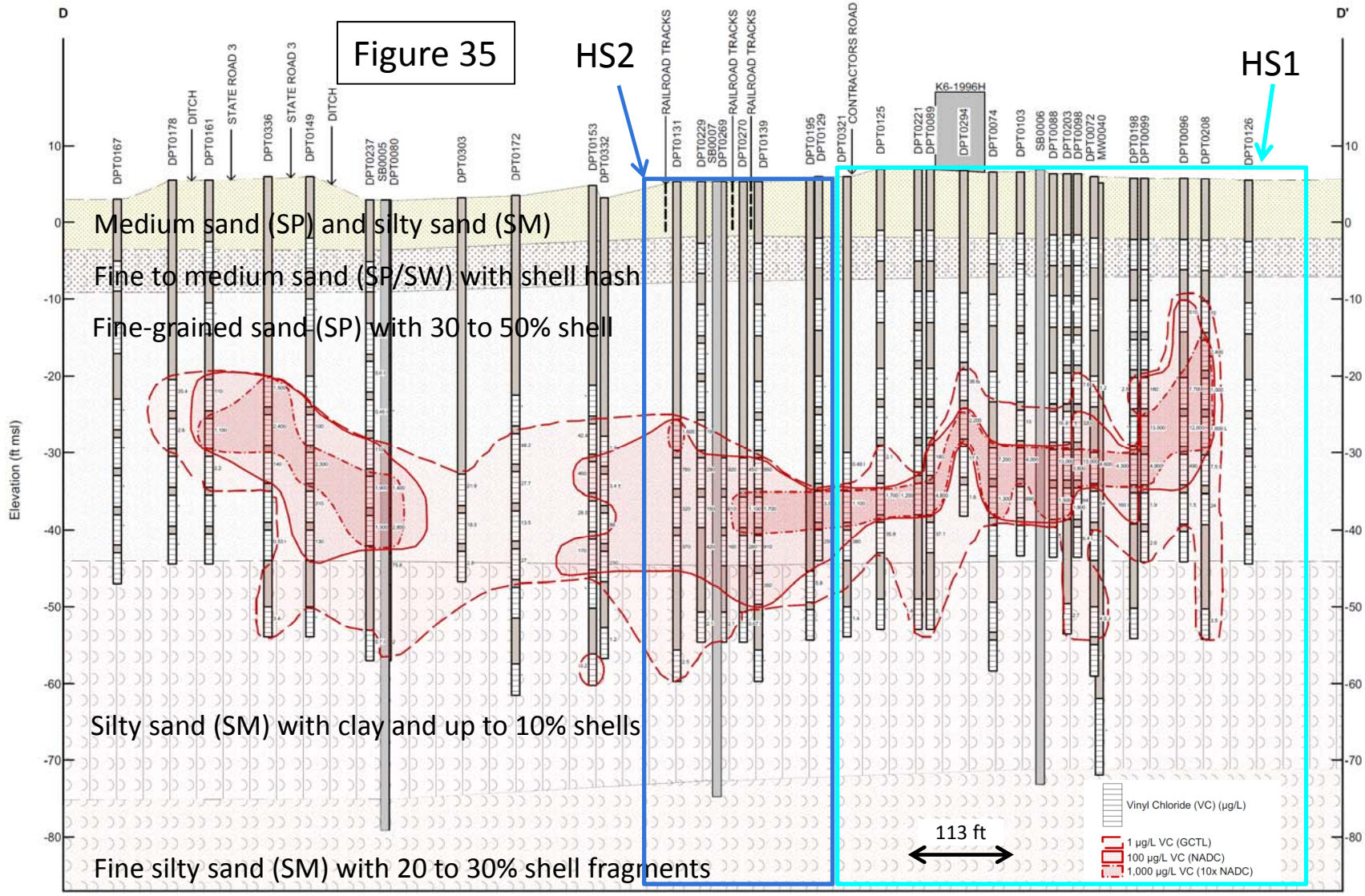
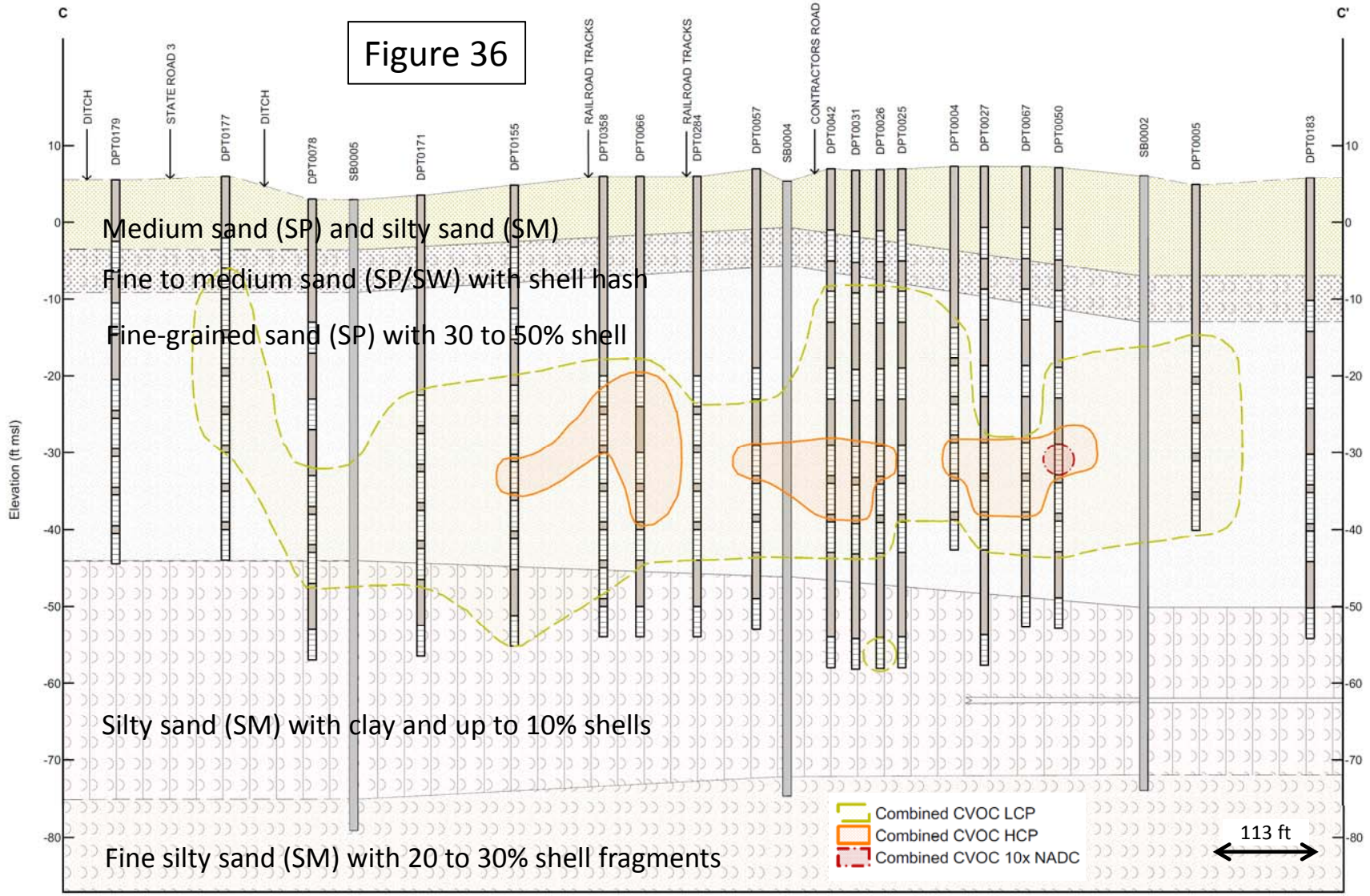


Figure 35
HS2
HS1
D
D'
Elevation (ft msl)
Medium sand (SP) and silty sand (SM)
Fine to medium sand (SP/SW) with shell hash
Fine-grained sand (SP) with 30 to 50% shell
Silty sand (SM) with clay and up to 10% shells
Fine silty sand (SM) with 20 to 30% shell fragments
113 ft
Vinyl Chloride (VC) (µg/L)
1 µg/L VC (GCTL)
100 µg/L VC (NADC)
1,000 µg/L VC (10x NADC)
DPT0167
DPT0178
DITCH
DPT0161
STATE ROAD 3
DPT0336
STATE ROAD 3
DPT0149
DITCH
DPT0237
SB0005
DPT0080
DPT0303
DPT0172
DPT0153
DPT0332
RAILROAD TRACKS
DPT0131
DPT0229
SB0007
DPT0269
RAILROAD TRACKS
DPT0270
RAILROAD TRACKS
DPT0139
DPT0195
DPT0129
DPT0321
CONTRACTORS ROAD
DPT0125
DPT0221
DPT0089
K6-1996H
DPT0294
DPT0074
DPT0103
SB0006
DPT0088
DPT0203
DPT0098
DPT0072
MW0040
DPT0198
DPT0099
DPT0096
DPT0208
DPT0126

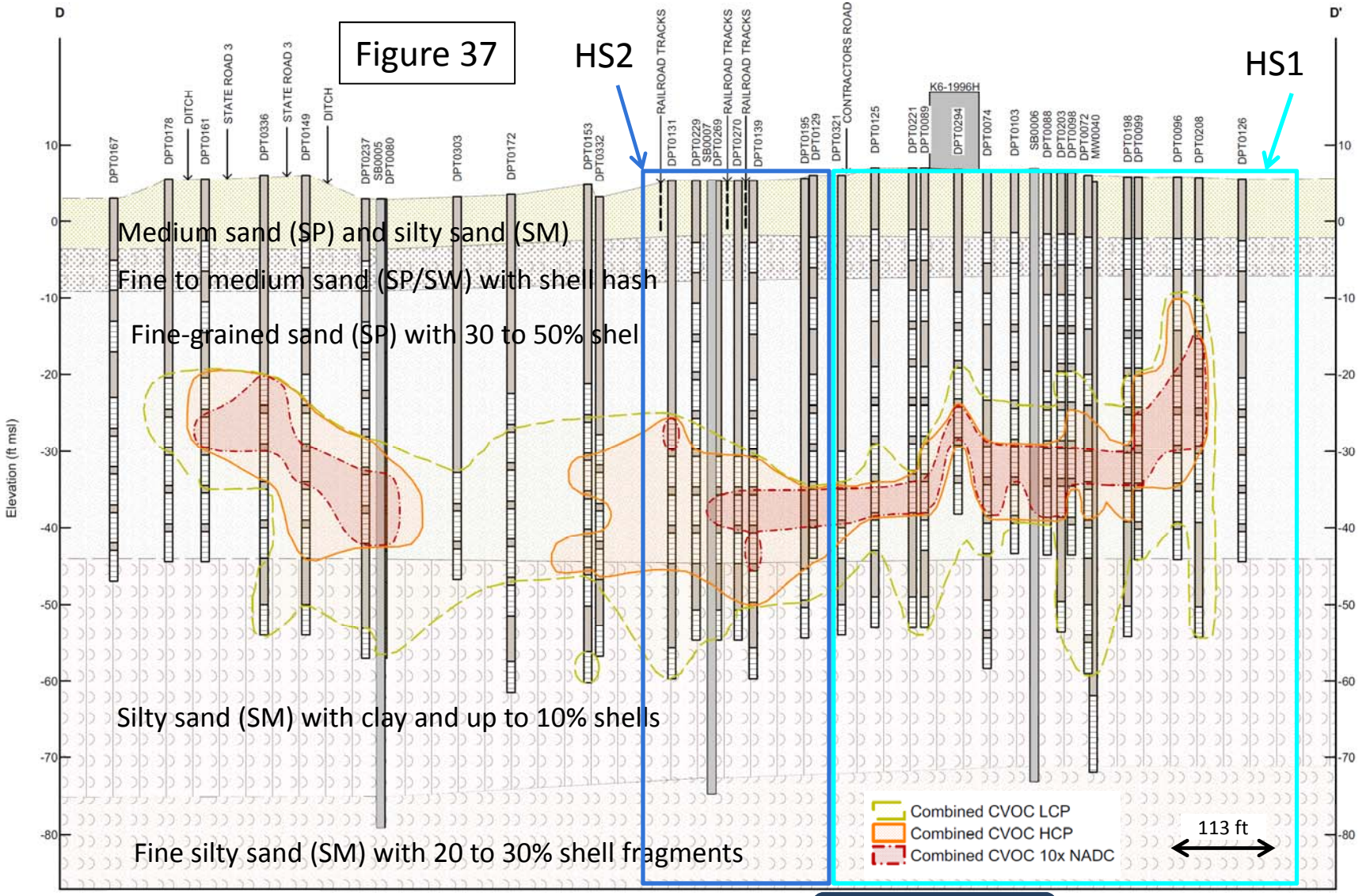
C-C' Composite CVOC Cross Section

Figure 36



Geosyntec consultants

D-D' Composite CVOC Cross Section



View 4dim EVS Files

Note: In the EVS model, ½ detection limit was used for ND values.

TetraTech comment #8: Slide 53 (new Slide 60) - Please list mass information by COC for each plume interval (e.g., X lbs of VC in LCP, Y lbs of VC in HCP, and Z lbs of VC in HS, etc.).

Response: The mass evaluation was prepared consistent with the Step 1 requirements; however, COC mass by plume designation is provided for review.

Plume Designation	TCE (lbs)	cDCE (lbs)	VC (lbs)	Total CVOCs (lbs)
LCP	6.9	8.1	6.2	21.2
HCP	17.3	63.0	15.2	95.5
HS	6.9	56.6	25.8	89.3
SZ	28.4	NA	NA	28.4
Total	60	128	47	234

Contaminant Mass Evaluation
Site-Wide HCP and LCP

		TCE Mass (lbs)				cDCE Mass (lbs)				VC Mass (lbs)				Total CVOC Mass (lbs)
Depth Interval (ft BLS)	foc	Dissolved	Sorbed	Total	Percentage of Total	Dissolved	Sorbed	Total	Percentage of Total	Dissolved	Sorbed	Total	Percentage of Total	
8 to 16	0.00333	0.01	0.03	0.04	0.1%	0.22	0.22	0.44	0.3%	0.10	0.06	0.16	0.3%	0.6
16 to 30	0.0011	1	1.4	3	4.5%	16	5.1	21	16.5%	4	0.7	4	9.1%	40
31 to 46	0.0011	17	20	36	61.3%	45	14	60	46.6%	27	5	32	68.3%	213
46 to 56	0.01	1	15	16	27.5%	12	35	47	36.5%	4	6	10	21.7%	58
56 to 75	0.01	0	3.6	4	6.7%	0	0.0	0	0.1%	0	0.1	0.2	0.5%	3
Total Mass		**59 lbs of TCE**				**128 lbs of cDCE**				**47 lbs of VC**				*

*Total CVOC mass (excluding potential DNAPL) within LCP and HCP areas = **234 lbs**

Notes:

1. Dissolved mass calculation method: Calculate the area of each COC contour interval, i.e. GCTL to NADC, NADC to 10xNADC, >10xNADC, (For TCE: 3 to 300 µg/L, 300 to 30,000 µg/L, > 30,000 µg/L). Calculate the plume pore volume (area multiplied by depth interval and porosity). Calculate the average CVOC concentration using DPT data located within each COC contour interval in the depth interval of interest. Pore volume multiplied by average concentration yields mass.
2. Sorbed mass calculation method: Use the area of each contour interval as described in note 1. Calculate the soil volume (area multiplied by depth interval) and convert to soil mass (multiply by assumed density of 100 lb/ft^3). Calculate the equilibrium soil concentrations using average dissolved CVOC concentrations calculated above, the fraction organic carbon (foc) provided in table above and the Koc's presented below. The soil concentration multiplied by the soil mass yields the sorbed mass.
3. Porosity was assumed to be 0.25.
4. foc is depth interval-specific and based on data from HMF North.
5. Koc data is from Sawyer, McCarty and Parkin (2003) and are TCE: 165.7 L/kg; cDCE: 45.6 L/kg; and VC: 26.3 L/kg.
6. Calculations do not consider potential DNAPL mass.

Contaminant Mass Evaluation
Hot Spot 2

		TCE Mass (lbs)				cDCE Mass (lbs)				VC Mass (lbs)				Total CVOC Mass (lbs)
Depth Interval (ft BLS)	foc	Dissolved	Sorbed	Total	Percentage of Total	Dissolved	Sorbed	Total	Percentage of Total	Dissolved	Sorbed	Total	Percentage of Total	
31 to 45	0.0011	0.20	0.24	0.44	12%	5.39	1.7331	7.1	56%	2.4	0.441	2.8	65%	10
46 to 55	0.01	0.28	2.9	3.2	88%	1.5	4.2	5.7	44%	0.56	0.94	1.5	35%	10
Total Mass (lbs)		**4 lbs of TCE**				**13 lbs of cDCE**				**4 lbs of VC**				*

*Total CVOC mass within HS2 = **21 lbs**

Notes:

1. Dissolved mass calculation method: Calculate the area of each contour interval (COCs combined), i.e. GCTL to NADC, NADC to 10xNADC, >10xNADC. Calculate the plume pore volume (area multiplied by depth interval and porosity). Calculate the average CVOC concentration using DPT data located within each COC contour interval in the depth interval of interest. Pore volume multiplied by average concentration yields the dissolved mass.
2. Sorbed mass calculation method: Use the area of each contour interval as described in note 1. Calculate the soil volume (area multiplied by depth interval) and convert to soil mass (multiply by assumed density of 100 lb/ft^3). Calculate the equilibrium soil concentrations using average dissolved CVOC concentrations calculated above, the fraction organic carbon (foc) provided in table above and the Koc's presented below. The soil concentration multiplied by the soil mass yields the sorbed mass.
3. Porosity was assumed to be 0.25.
4. foc is depth interval-specific and based on data from HMF North.
5. Koc data is from Sawyer, McCarty and Parkin (2003) and are TCE: 165.7 L/kg; cDCE: 45.6 L/kg; and VC: 26.3 L/kg.
6. Calculations do not consider potential DNAPL mass.

Test Consensus

- HS2
  - TCE delineation
  - cDCE delineation
  - VC delineation
- HCP
  - TCE delineation
  - cDCE delineation
  - VC delineation
- LCP
  - TCE delineation
  - cDCE delineation
  - VC delineation

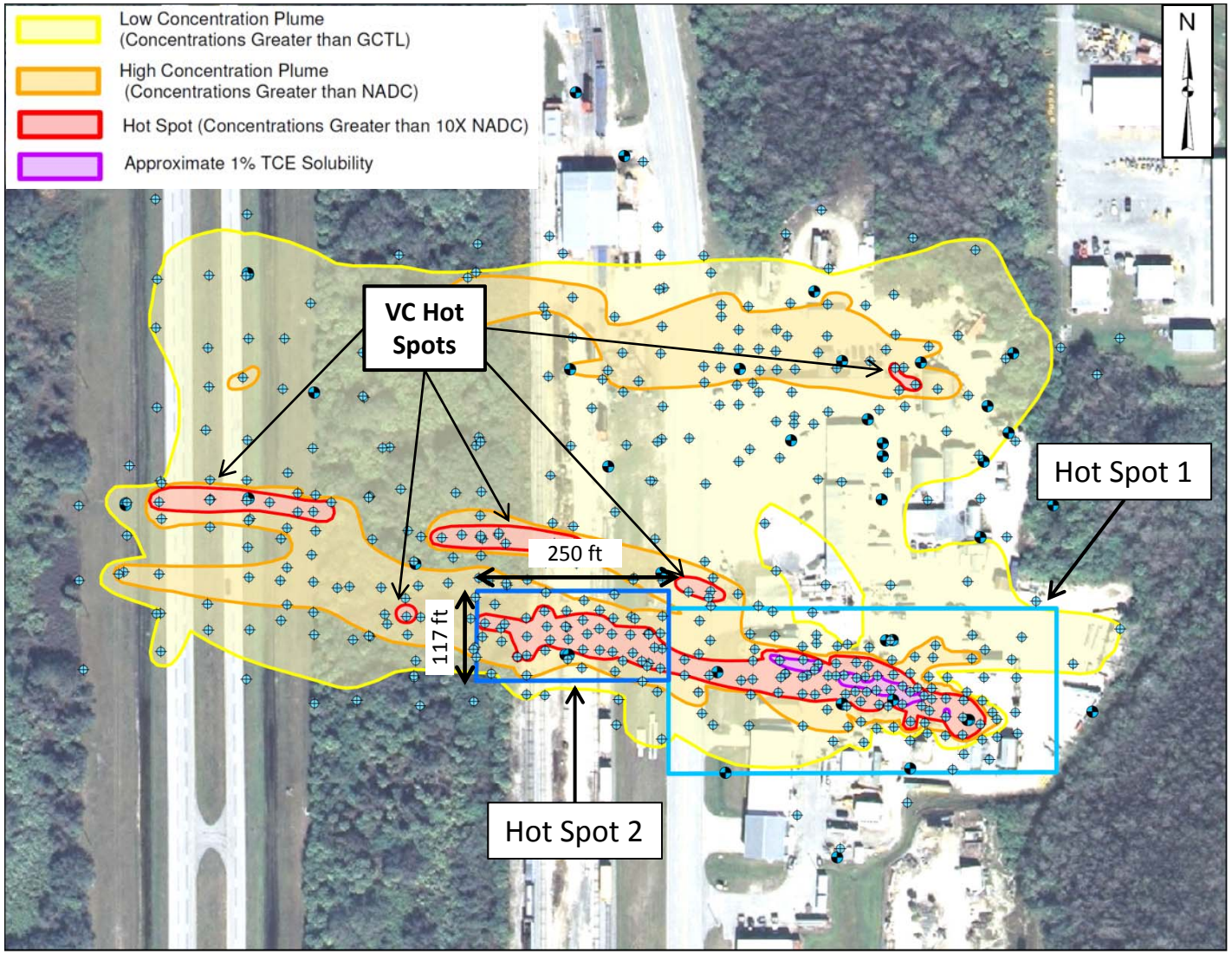
Step 1 – Section B

Presentation Outline

- Step 1 Section B
  - Review of Site Conditions
  - List of Technologies
  - Engineering Data Gaps
  - Technologies Retained
  - Test Consensus

Overall Combined Depth CVOC Plume Map

- HS2: Area west of Hot Spot 1 with CVOC impacts greater than 10XNADC
- HCP: refers to site-wide CVOC impacts greater than NADC
- LCP: refers to site-wide CVOC impacts greater than GCTL



Site Plumes

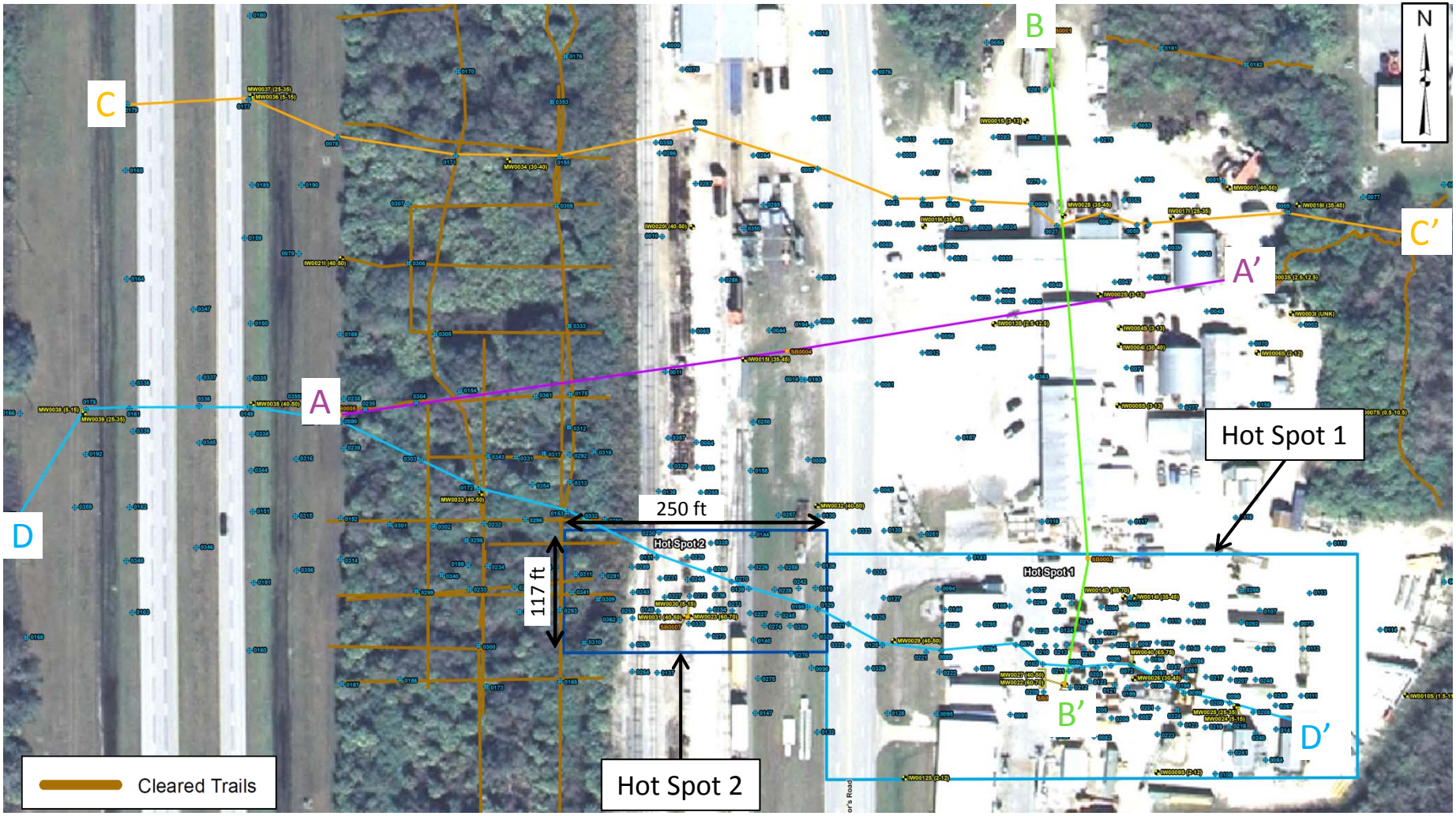
Designation	Concentrations	Acreage
LCP (site-wide)	>GCTL	14.90
HCP (site-wide)	>NADC	4.37
HCP (HS2)	>NADC	0.25
Hot Spot (site-wide)	>10XNADC	1.01
1% TCE Solubility	>11,000 µg/L	0.06

- Step 1B focused on HS2 and HCP plumes

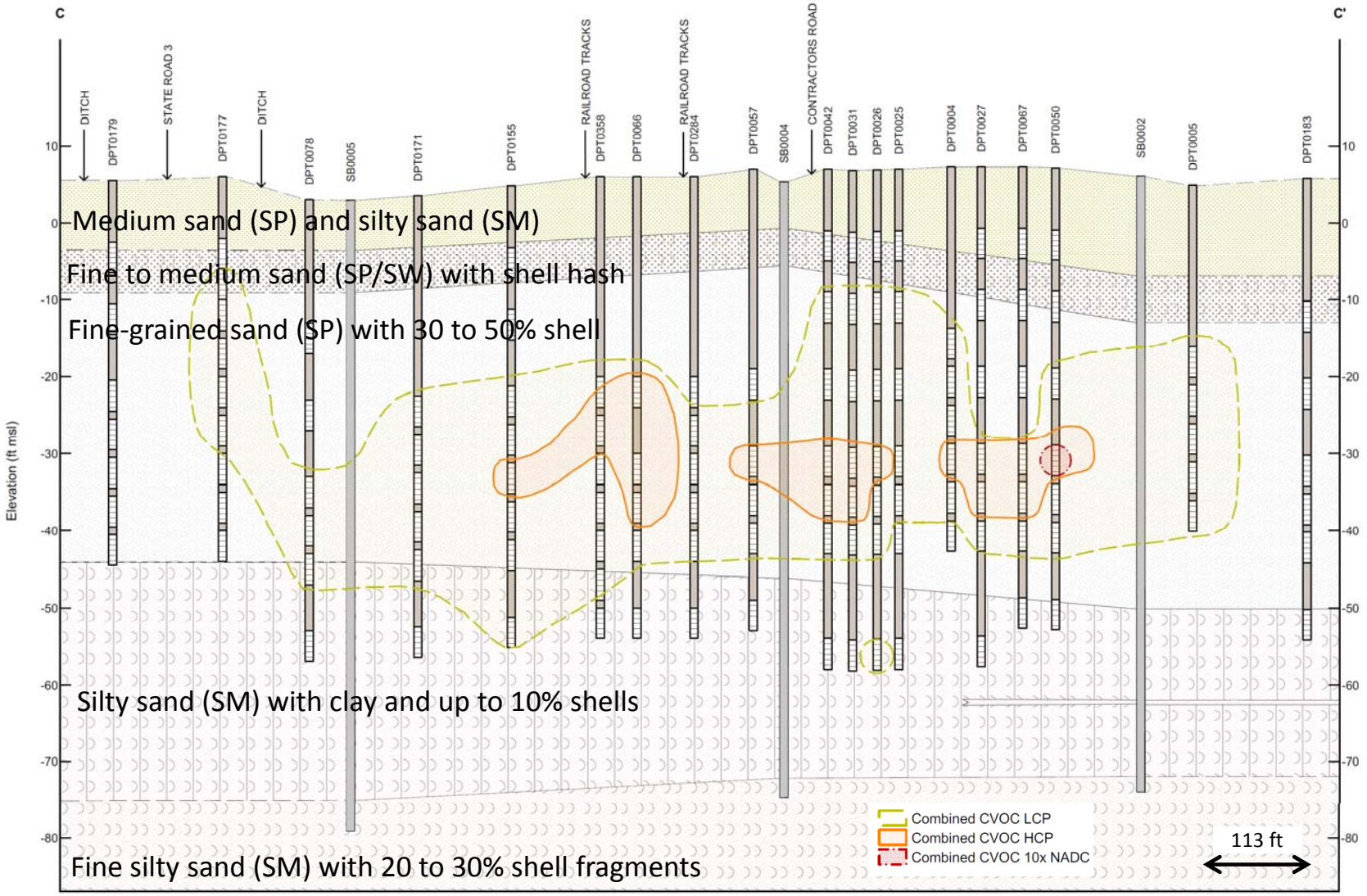
Review of Site Conditions

- Heavy vegetation and wetlands near western boundary of HS2 and most of HCP
- HS2 and HCP include wetlands, multiple railroads, drainage ditch, and Kennedy Parkway
- Impacts generally present from 8 to 50 ft BLS
  - Majority of CVOC contaminant mass is located from 31 to 45 ft BLS (91%)
- Lithology is primarily sand until approximately 45 ft BLS (based on visual observations, MIP, and DPT data)
  - Below approximately 45 ft BLS lithology is silty sand, with varying amounts of clay (semi-confining layer)

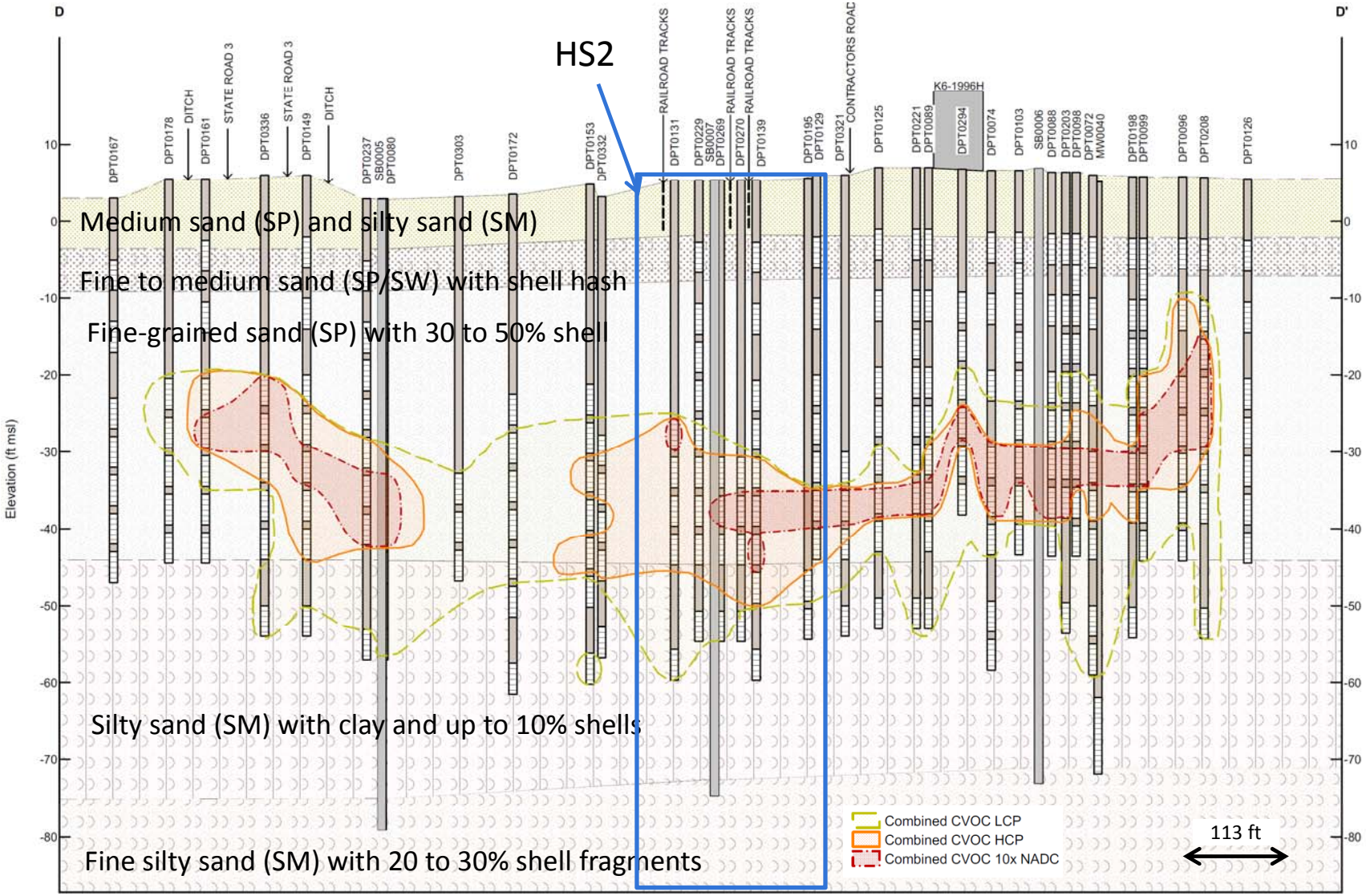
Cross Section Locations



C-C' Composite CVOC Cross Section



D-D' Composite CVOC Cross Section



Low Concentration Plume (site-wide)

Technology	Screening Result and Rationale
No Action No Further Action	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective.
Limited Action (Passive) Institutional Controls	**Retained** – Facility Land Use Controls warranted to prevent exposure to groundwater and/or installation of potable wells.
Monitoring (LTM, MNA)	**Retained** – Implement LTM/MNA groundwater program to monitor site conditions.
Action (Aggressive)	**Eliminated** – Aggressive actions for LCP not warranted at this time; therefore, no detailed screening necessary. There are no receptors for impacts associated with LCP or nearby OFWs that could potentially be impacted.

High Concentration Plume (site-wide)

Technology	Screening Result and Rationale
No Action	
No Further Action	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective.
Limited Action (Passive)	
Institutional Controls	**Retained** – Facility Land Use Controls warranted to prevent exposure to groundwater and/or installation of potable wells.
Monitoring (LTM, MNA)	**Retained** –Implement LTM/MNA groundwater program to monitor site conditions in conjunction with implementation of another technology.
Action (Aggressive)	
GW Extraction (Hydraulic Containment, pump and treat)	**Conditionally Retained** – Only suitable for plume containment and/or as a component of another aggressive treatment technology.
Impermeable Barrier	**Eliminated** – Not feasible due to site features (buildings, roads and railroad tracks); multiple discrete areas.
Bioremediation (Bioaugmentation, Biostimulation)	**Retained** – Reductive dechlorination occurring at site based on MEE, sulfate, sulfide, Dhc, vcrA, cDCE and VC sampling results from HS1.
Large Diameter Auger (LDA) (solidification, steam, EZVI approaches)	**Eliminated** – Not feasible due to site features – buildings, roads and railroad tracks.
Air Sparge	**Retained** – Effective treatment above semi-confining layer (~45 ft BLS) for volatilization of CVOCs.

High Concentration Plume (site-wide)

Technology	Screening Result and Rationale
Action (Aggressive)	
Multiphase Extraction (MPE)	**Eliminated** – No significant vadose zone/shallow impacts, high energy use if deployed for groundwater dewatering/extraction.
Heating Technologies	**Eliminated** – Technology better suited for significant DNAPL source zone and mass stored in low permeability zones.
Oxidation Technologies	**Eliminated** – Rebound and tailing effects would be anticipated and difficulties achieving effective oxidant distribution.
EZVI	**Eliminated** – Technology better suited for focused DNAPL source zones not dissolved CVOCs.
Co-Solvent Flushing	**Eliminated** – Technology better suited for focused DNAPL source zones.
Electrokinetic (EK) Enhanced Bio or ChemOx	**Eliminated** – Technology better suited for focused uniform distribution of e-donor, microbial culture, or oxidant in limited footprint areas with high level of heterogeneity and diffused mass/DNAPL in low permeability zones.
Excavation	**Eliminated** – Depth of impacts makes implementation infeasible.

Hot Spot 2 (>10xNADCs)

Technology	Screening Result and Rationale
No Action	
No Further Action	**Eliminated** – Not protective of human health and environment or allowed from a regulatory perspective.
Limited Action (Passive)	
Institutional Controls	**Retained** – Facility Land Use Controls warranted to prevent exposure to groundwater and/or installation of potable wells.
Monitoring (LTM, MNA)	**Retained** –Implement LTM/MNA groundwater program to monitor site conditions in conjunction with implementation of another technology.
Action (Aggressive)	
GW Extraction (Hydraulic Containment, pump and treat)	**Conditionally Retained** – Only suitable for plume containment and/or as a component of another aggressive treatment technology.
Impermeable Barrier	**Eliminated** – Not feasible due to site features (buildings, roads and railroad tracks); multiple discrete areas.
Bioremediation (Bioaugmentation, Biostimulation)	**Retained** – Reductive dechlorination occurring at site based on MEE, sulfate, sulfide, Dhc, vcrA, cDCE and VC sampling results from HS1.
Large Diameter Auger (LDA) (solidification, steam, EZVI approaches)	**Eliminated** – Not feasible due to site features – buildings, roads and railroad tracks.
Air Sparge	**Retained** – Effective treatment above semi-confining layer (~45 ft BLS) for volatilization of CVOCs.

Hot Spot 2 (>10xNADCs)

Technology	Screening Result and Rationale
Action (Aggressive)	
Multiphase Extraction (MPE)	**Eliminated** – No significant vadose zone/shallow impacts, high energy use if deployed for groundwater dewatering/extraction.
Heating Technologies	**Eliminated** – Technology better suited for significant DNAPL source zone and mass stored in low permeability zones; very limited area of hot spot would result in very high unit cost for technology application.
Oxidation Technologies	**Eliminated** – Rebound and tailing effects would be anticipated and difficulties achieving effective oxidant distribution.
EZVI	**Eliminated** – Technology better suited for focused DNAPL source zones not dissolved CVOCs.
Co-Solvent Flushing	**Eliminated** – Technology better suited for focused DNAPL source zones.
Electrokinetic (EK) Enhanced Bio or ChemOx	**Eliminated** – Technology better suited for focused uniform distribution of e-donor, microbial culture, or oxidant in limited footprint areas with high level of heterogeneity and diffused mass/DNAPL in low permeability zones.
Excavation	**Eliminated** – Depth of impacts makes implementation infeasible.

Engineering Data Gaps

- Evaluate permeability in silty sand with clay layer (45 to 60 ft BLS)

Retained Technologies

HS2 (> 10xNADC)	HCP (> NADC)	LCP (> GCTL)
Monitoring	Monitoring	Monitoring
Bioremediation (Recirculation delivery option retained)	Bioremediation (Recirculation delivery option retained)	
Air sparging	Air sparging	

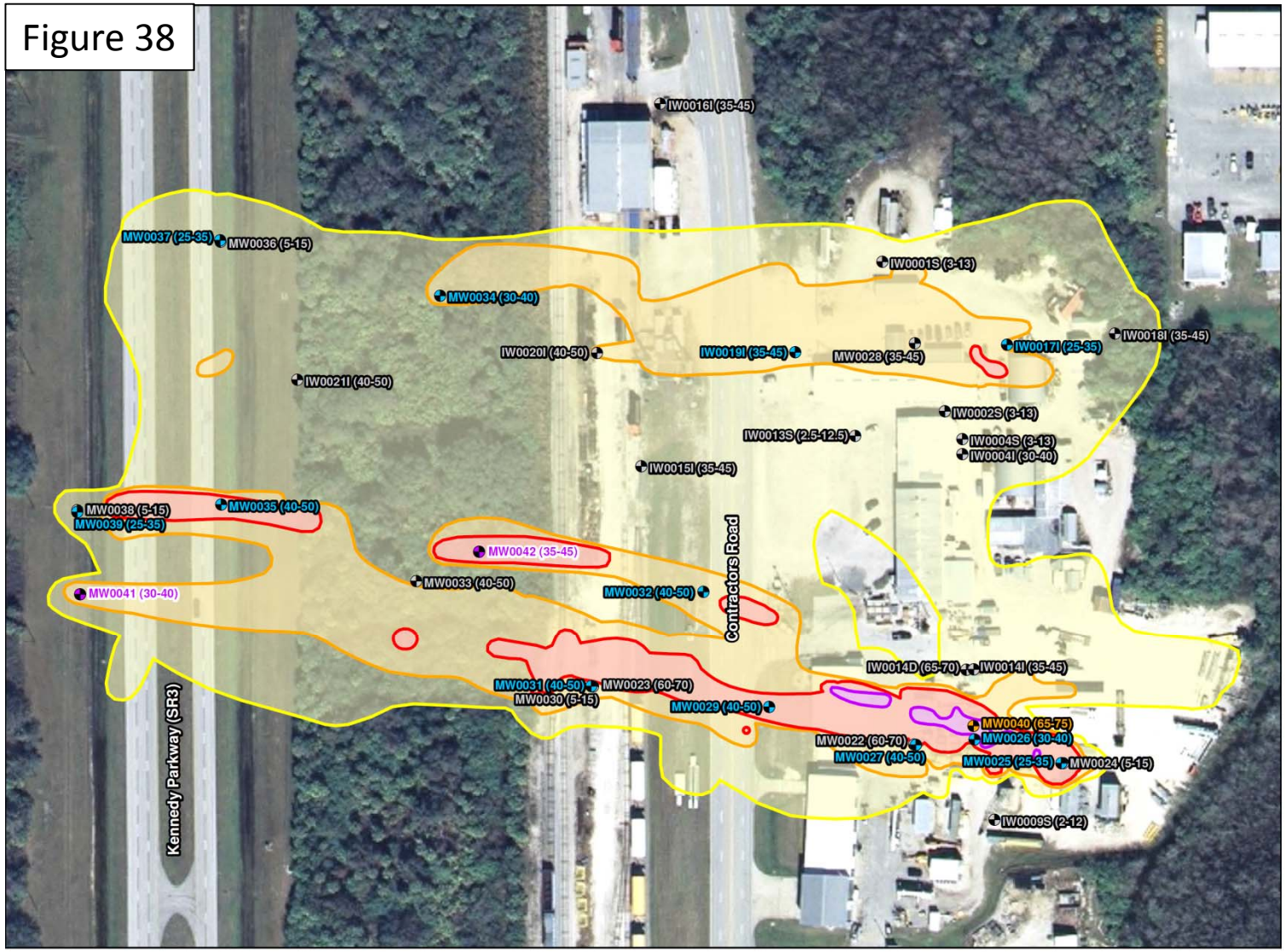
Air sparge, MNA and bioremediation are scalable to larger treatment areas

Path Forward/Test Consensus

- Proceed to Step 2
  - Presumptive interim GW monitoring for LCP
  - Separate evaluations for retained technologies
    - CVOCs > NADC
  - Test consensus
    - Technologies retained for evaluation in Step 2
      - Bioremediation with recirculation
      - Air sparging
      - MNA

Step 1 – Section C

Figure 38



Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).

Geosyntec consultants

Rationale Table

Well Location	Screened Interval (ft BLS)	Analytes	Rationale
IW0017I	25 to 35	VOCs	VC exceeds NADC.
IW0019I	35 to 45	VOCs	cDCE (GCTL) and VC (NADC) exceedances.
MW0025	25 to 35	VOCs; 1,4-D	Monitor NADC plume.
MW0026	30 to 40	VOCs; 1,4-D	Monitor NADC plume.
MW0027	40 to 50	VOCs	Monitor NADC plume.
MW0029	40 to 50	VOCs; 1,4-D	Monitor NADC plume.
MW0031	40 to 50	VOCs	VC exceeds NADC.
MW0032	40 to 50	VOCs	VC exceeds GCTL and downgradient of VC HS.
MW0034	30 to 40	VOCs	VC exceeds NADC and screened within main plume.
MW0035	40 to 50	VOCs; 1,4-D	VC exceeds NADC.
MW0037	25 to 35	VOCs	cDCE (GCTL) and VC (NADC) exceedances. Provides downgradient monitoring of northern plume.
MW0039	25 to 35	VOCs	VC exceedance (GCTL) and on far west boundary. Provides downgradient monitoring of southern plume.
MW0040	65 to 75	VOCs	Deep well near source zone.
MW0041*	30 to 40	VOCs	VC exceeds NADC.
MW0042*	35 to 45	VOCs	VC exceeds 10XNADC.

*Proposed monitoring wells.
1,4-D = 1,4-dioxane.
Annual sampling, conducted in November (timing may be adjusted based on SZ treatment).

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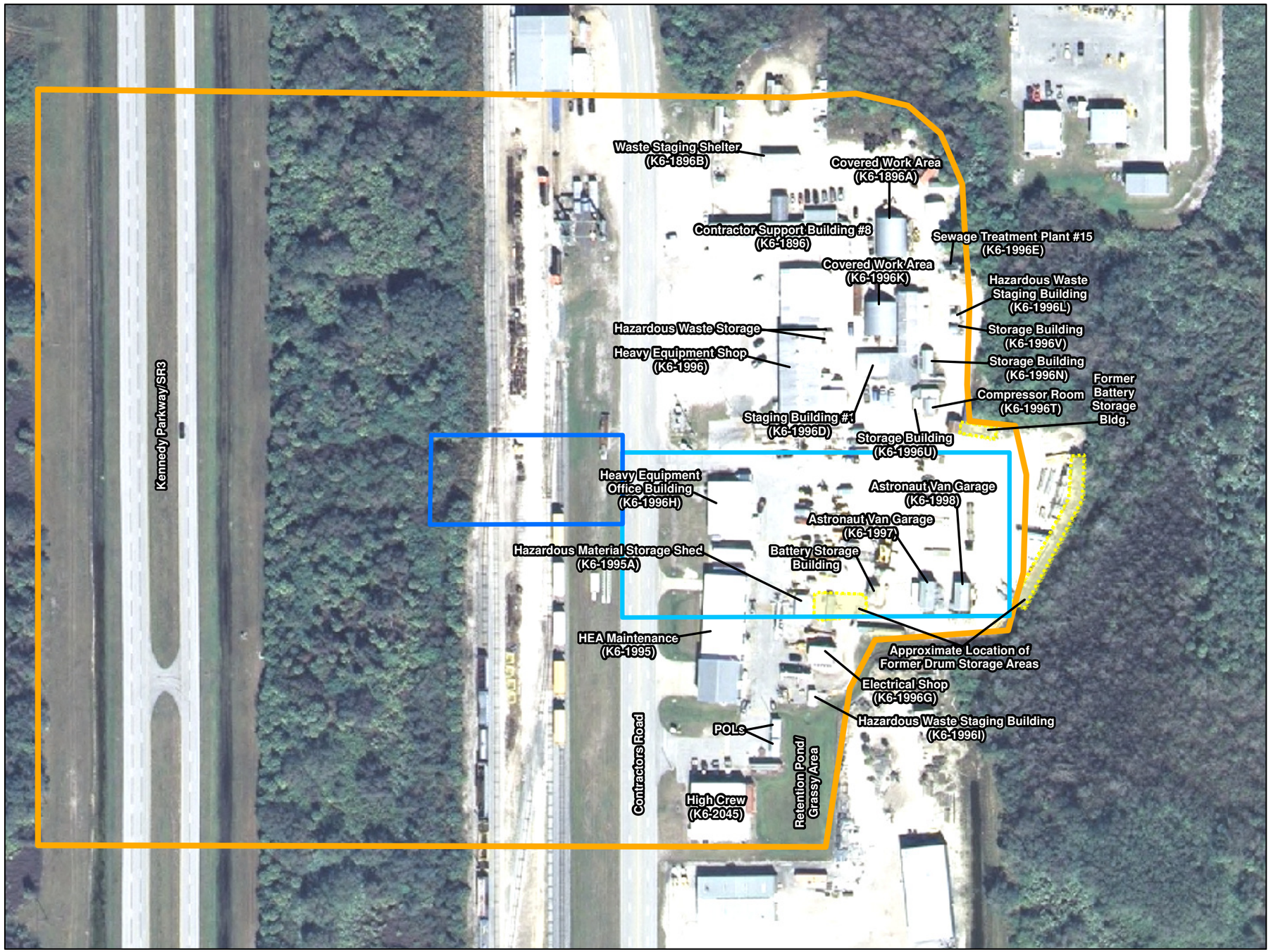
Table 1. Summary of DPT Sample Spacing Compared to Recommended Spacing
Contractor's Road Heavy Equipment Area

Location	Applicable Maps	Plume Concentration	Recommended EE Guidance Spacing	Actual Sample Spacing	Rationale
DPT0135	VC 31 to 46	HS	25 ft	30 to 40 ft	Subsurface utilities present in this area.
DPT0159	VC 16 to 30	HCP	50 ft	50 to 100 ft	DPT0347 provides adequate delineation of this HCP.
DPT0161	VC 16 to 30; VC 31 to 46	HS	25 ft	25 to 45 ft	The area between DPT0161 and DPT0178 is inaccessible due to a drainage ditch.
DPT0237	VC 31 to 46	HS	25 ft	25 to 65 ft	The area between DPT0237 and DPT0149 is inaccessible due to a drainage ditch.
DPT0251	VC 16 to 30; VC 31 to 46	HCP	50 ft	35 to 90 ft	There is very thick road base in this area to support movement of heavy equipment and refusal was repeatedly encountered (attempted at over 20 locations).
DPT0268	VC 31 to 46; VC 46 to 56	HS	25 ft	25 to 50 ft	Railroad tracks are present in this area.
DPT0291	cDCE 31 to 46; cDCE 46 to 56; VC 31 to 46; VC 46 to 56	HS	25 ft	25 to 50 ft	The area between DPT0291 and DPT0290 was inaccessible during multiple sampling events due to standing water.
DPT0311	cDCE 31 to 46; cDCE 46 to 56; cDCE >56; VC 31 to 46; VC 46 to 56; VC >56	HS	25 ft	25 to 50 ft	The area between DPT0311 and DPT0332 was inaccessible during multiple sampling events due to standing water.
DPT0318	VC 31 to 46	HS	25 ft	25 to 70 ft	The area between DPT0318 and DPT0329 is inaccessible due to standing water, a drainage ditch, and railroad tracks. The areas to the north and south of DPT0318 were inaccessible during multiple sampling events due to standing water.
DPT0331	VC 31 to 46	HS	25 ft	25 to 50 ft	Limited access due to heavy vegetation.
DPT0333	VC 16 to 30; VC 31 to 46; VC 46 to 56	LCP	100 ft	65 to 130 ft	Limited access due to heavy vegetation.

Note: This table is intended to provide additional explanation where sample spacing varied from suggested guidance.



N

140 70 0 140

Feet

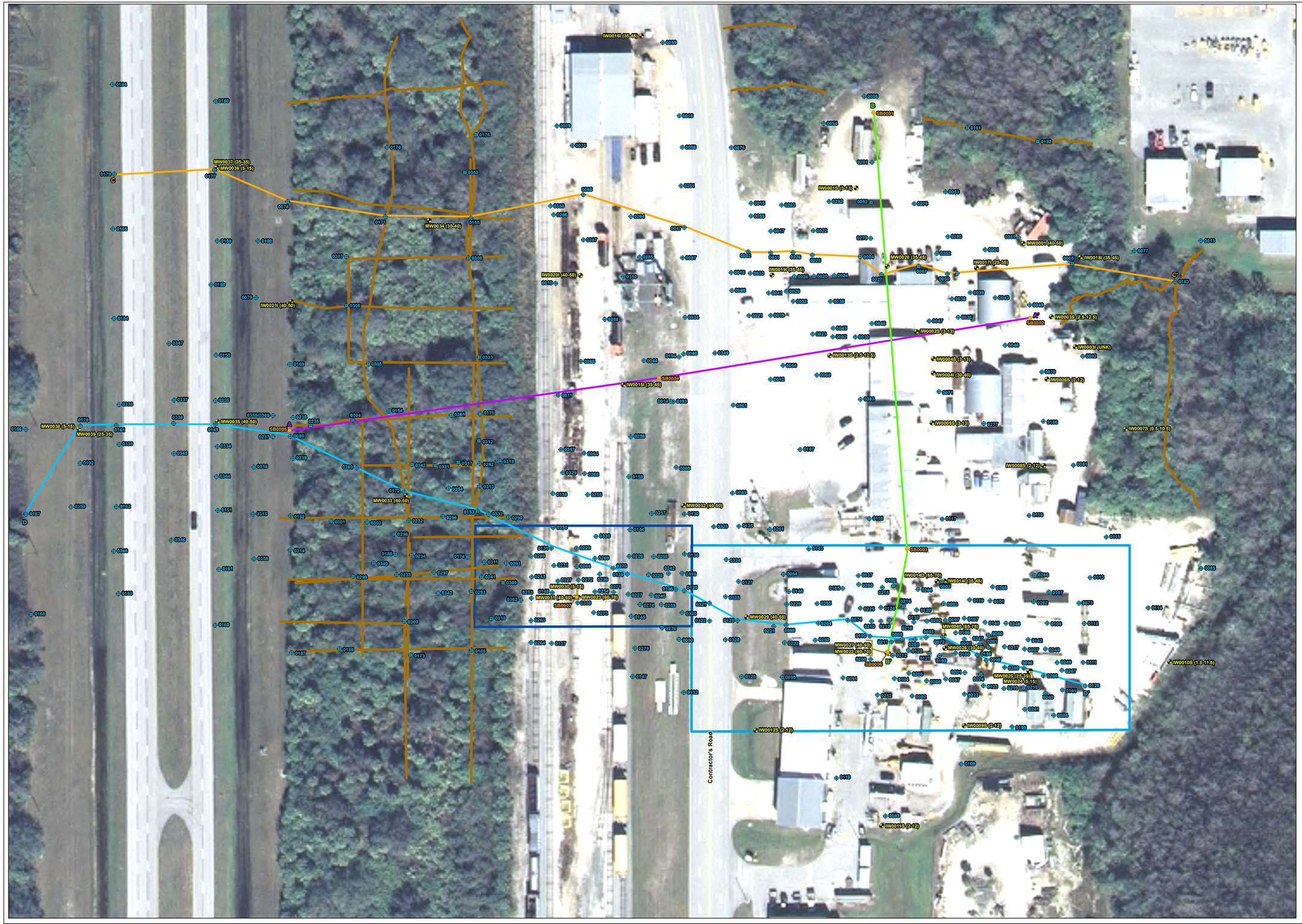
Legend

- Hot Spot 2
- Hot Spot 1
- Solid Waste Management Unit #55 Boundary
- Approximate Location of Former Drum Storage Area; Former Battery Storage Bldg.

Note: Historical Site Features were obtained from the 1999 RFI Report.

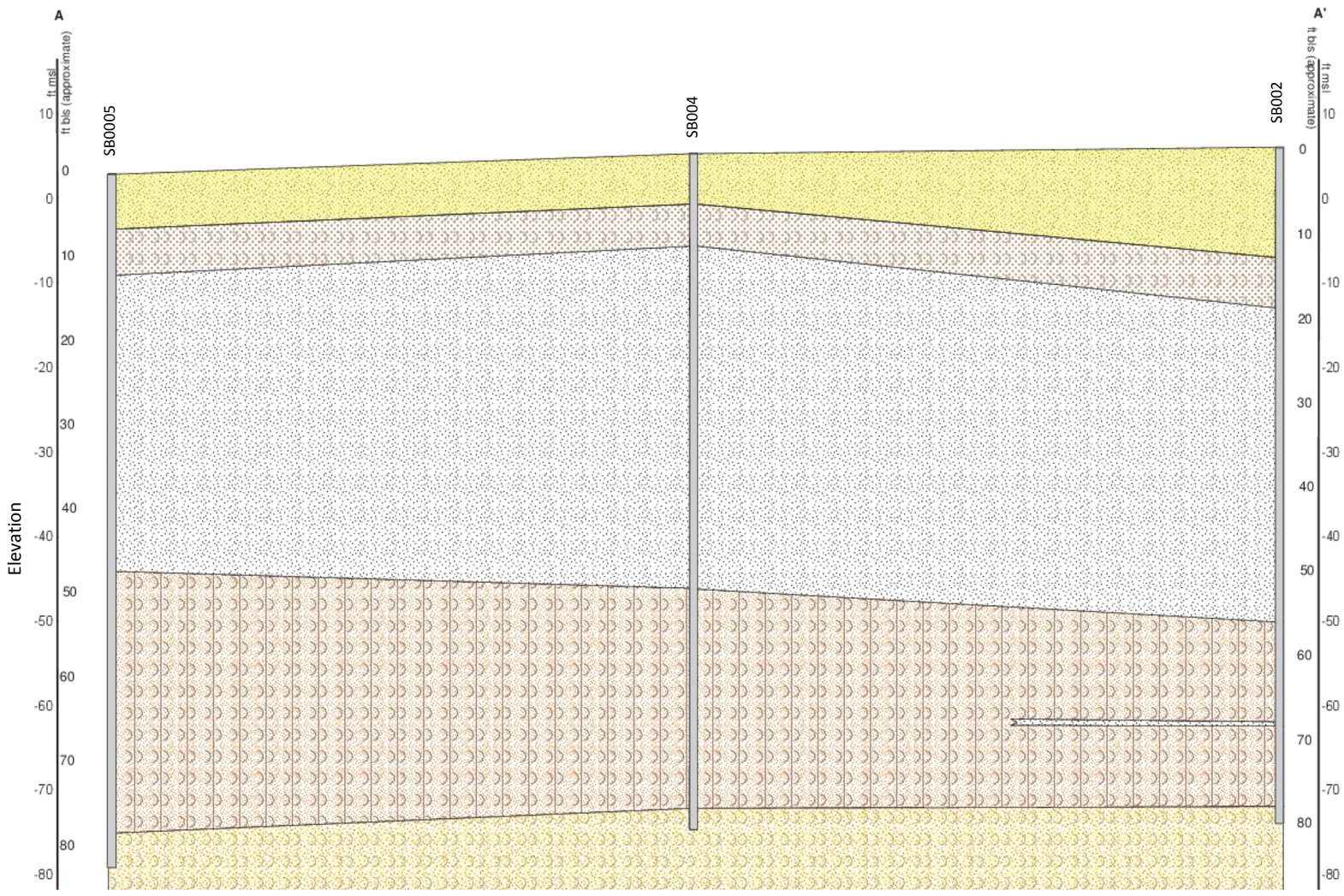
Path: (Titusville-01\DATA) T:\0GIS\FR1681_CRHE\MXDs\JAN2015\Overall_Site_Map_11_17.mxd 13 January 2015 JRB

Figure 1
Site Map



Path: I:\Nashville-01\Data\7.0\GIS\FY16\01_CRHE\MXD\eNOV2014\CrossSection_Transects_NOV2014.mxd 05 Mar 2015 JRB

Figure 2
CRHE Area Cross Section Transects



Notes:

1. ft indicate feet.
2. msl indicates mean sea level
3. bls indicates below land surface
4. This cross section is intended to show general lithological trends. At select locations there are interbedded materials of various grain size. If specific information regarding materials encountered at specific depths is needed, soil boring logs should be reviewed.

78 39 0 78 Feet

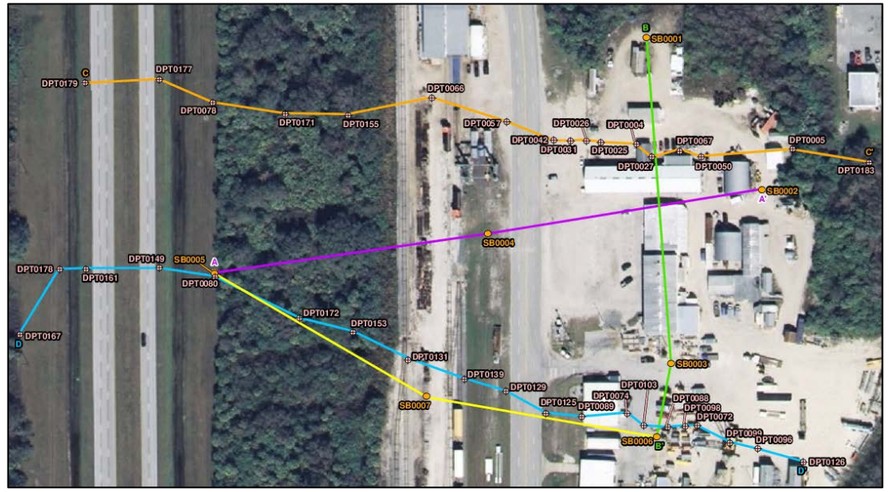
Horizontal 1" = 78'
Vertical exaggeration is 6

Legend

Lithology Boring

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with shell 30 - 50%
- Silty SAND (SM) with varying amounts of clay and up to 10% shells
- Fine silty SAND (SM) with 20-30% shell fragments



Legend

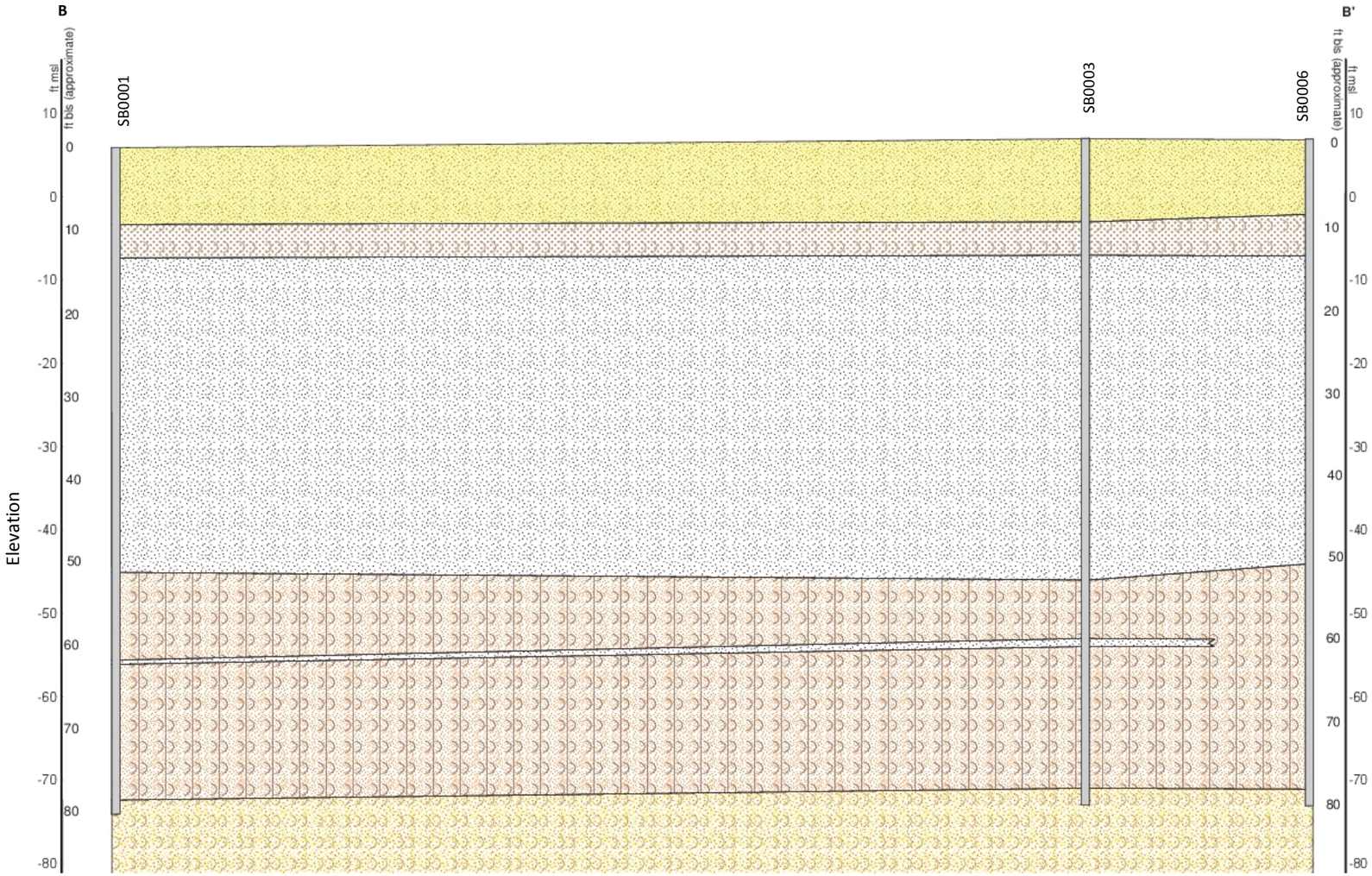
- Soil Boring Location
- DPT Sampling Location
- A-A' Transect
- A-B' Transect
- B-B' Transect
- C-C' Transect
- D-D' Transect

Notes: Prefix for all sampling location is "CRHE-"

12. This cross section is intended to show general lithologi trends. At select locations there are interbedded materials various grain size. If specific information regarding materia encountered at specific depths is needed, soil boiring logs should be reviewed.

120 60 0 120 Feet

Figure 3
Lithologic Cross Section A to A'



Legend

Lithology Boring

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with shell 30 - 50%
- Silty SAND (SM) with varying amounts of clay and up to 10% shells
- Fine silty SAND (SM) with 20-30% shell fragments

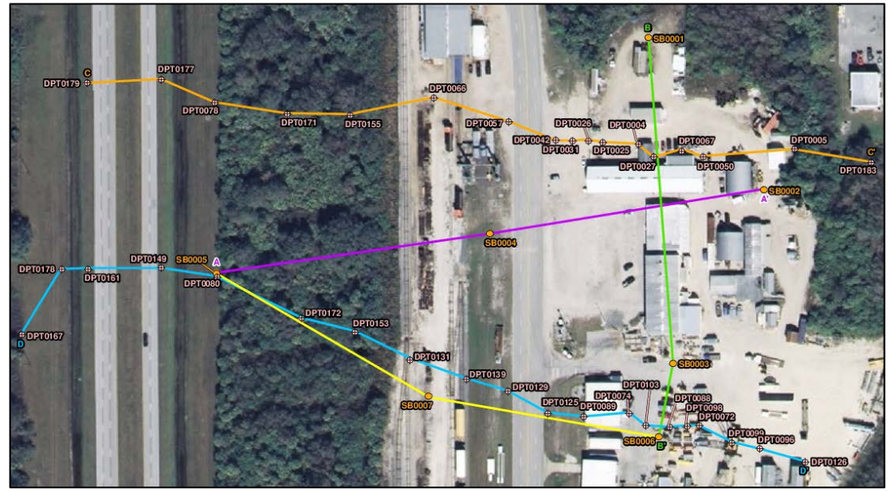
Notes:

1. ft indicate feet
2. msl indicates mean sea level
3. bls indicates below land surface
4. This cross section is intended to show general lithological trends. At select locations there are interbedded materials of various grain size. If specific information regarding materials encountered at specific depths is needed, soil boring logs should be reviewed.

57 28 0 57 Feet

Horizontal 1" = 57'

Vertical exaggeration is 4.5



Legend

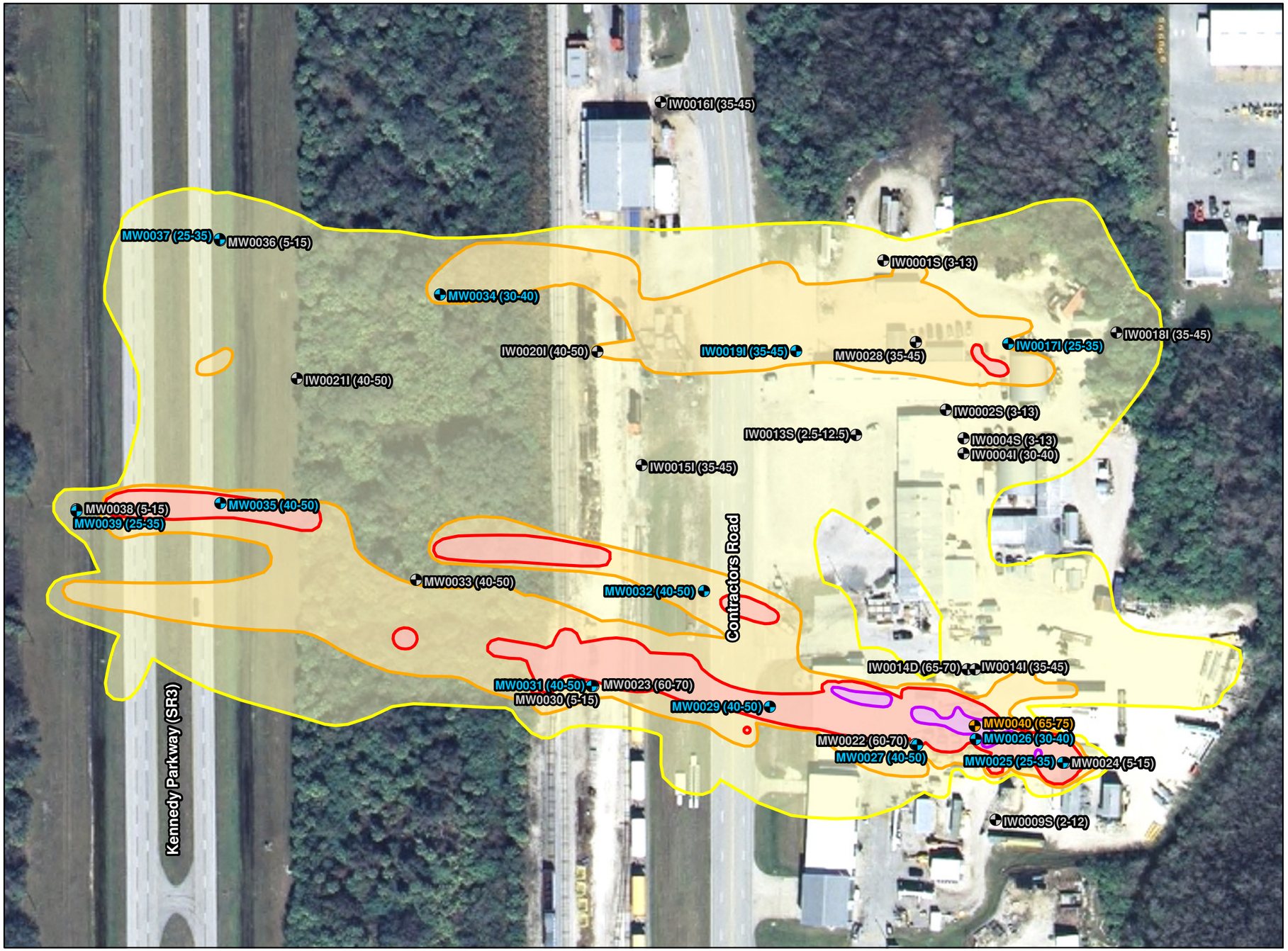
- Soil Boring Location
- DPT Sampling Location
- A-A' Transect
- A-B' Transect
- B-B' Transect
- C-C' Transect
- D-D' Transect

Notes: Prefix for all sampling location is "CRHE-"

N

120 60 0 120 Feet

Figure 4
Lithologic Cross Section B to B'



N

120 60 0 120

Feet

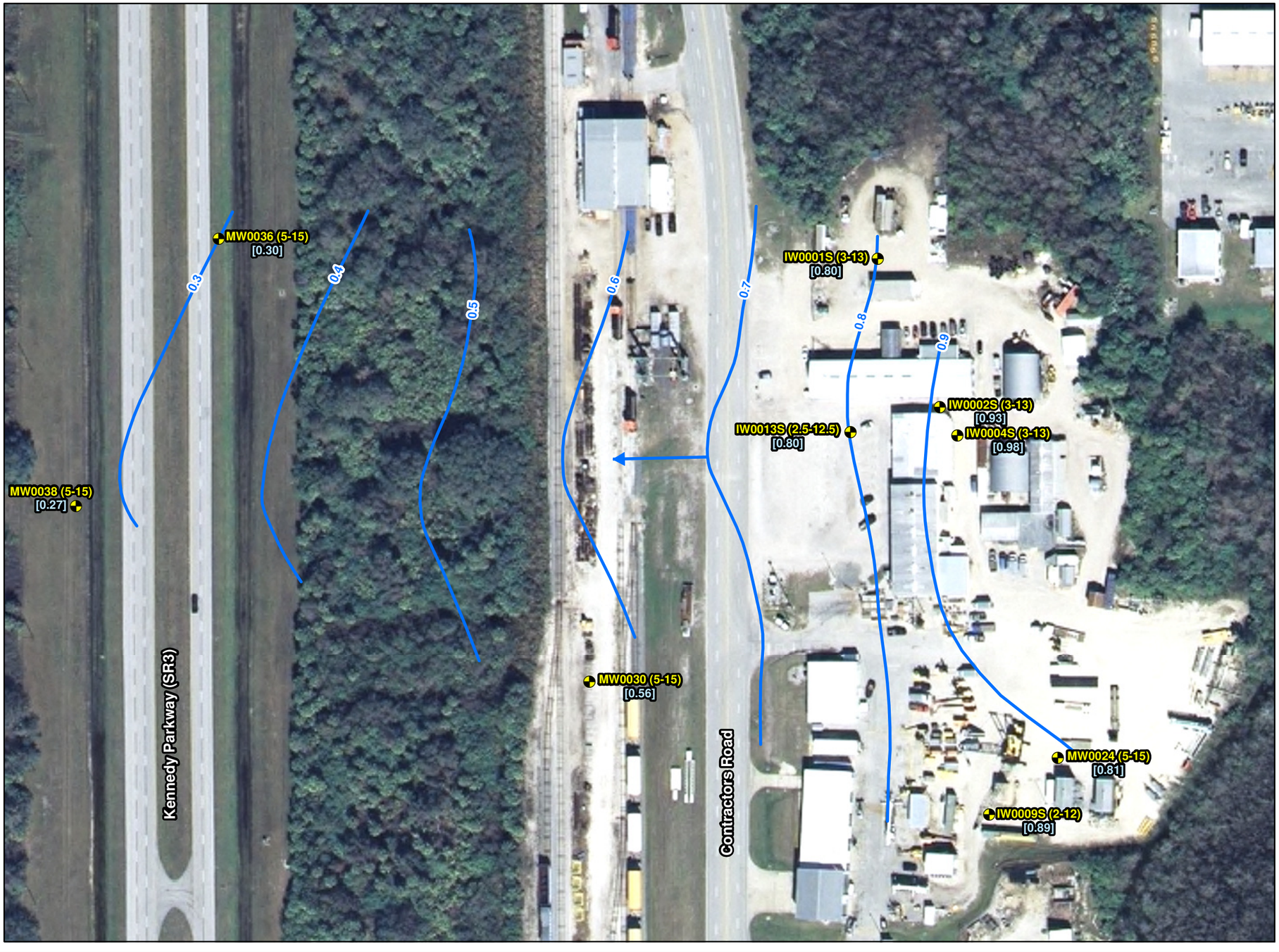
Legend

- Intermediate Monitoring Well Location (Screen Interval)
- Deep Monitoring Well Location (Screen Interval)
- Monitoring Well - Not Part of Interim Groundwater Sampling Plan (Screen Interval)
- Low Concentration Plume
- High Concentration Plume
- Hot Spot
- 1% TCE Solubility Plume

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).

Path: {Titusville-01\Data\}P:\0GIS\FR1681_CRHE\MXDs\MAR2015\GW_network_MARCH2015.mxd 25 March 2015 MAH

Figure 5
Monitoring Well Sampling Locations



N

120 60 0 120

Feet

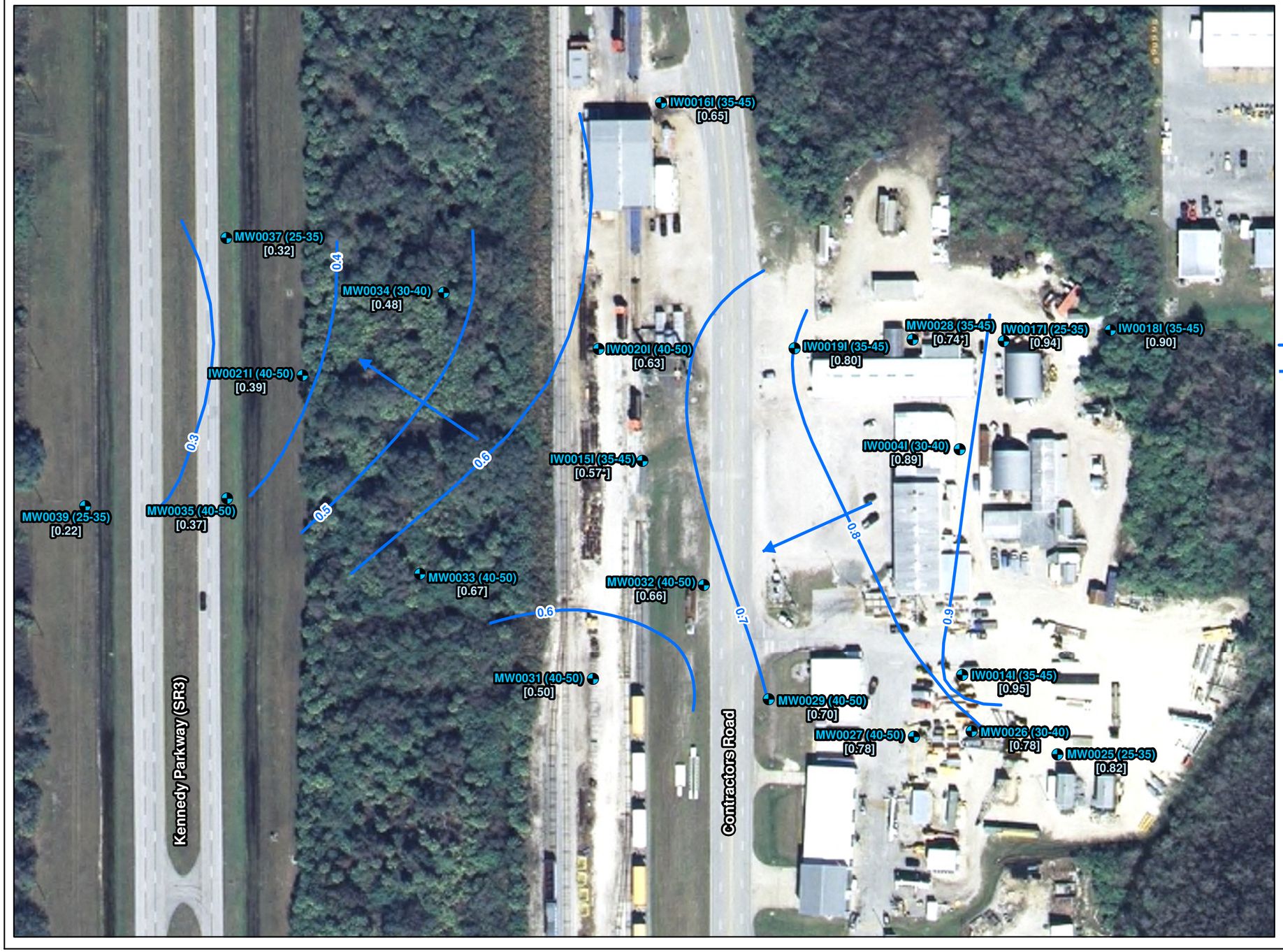
Legend

- Shallow Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction

Notes:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.

Titusville-01\data\0GIS\FR1681\MXDs\MRACH2012\GW_Elev_Shallow.mxd 21 MARCH 2012 JRB

Figure 6
Shallow Groundwater Elevation Contours - March 2012



N

120 60 0 120

Feet

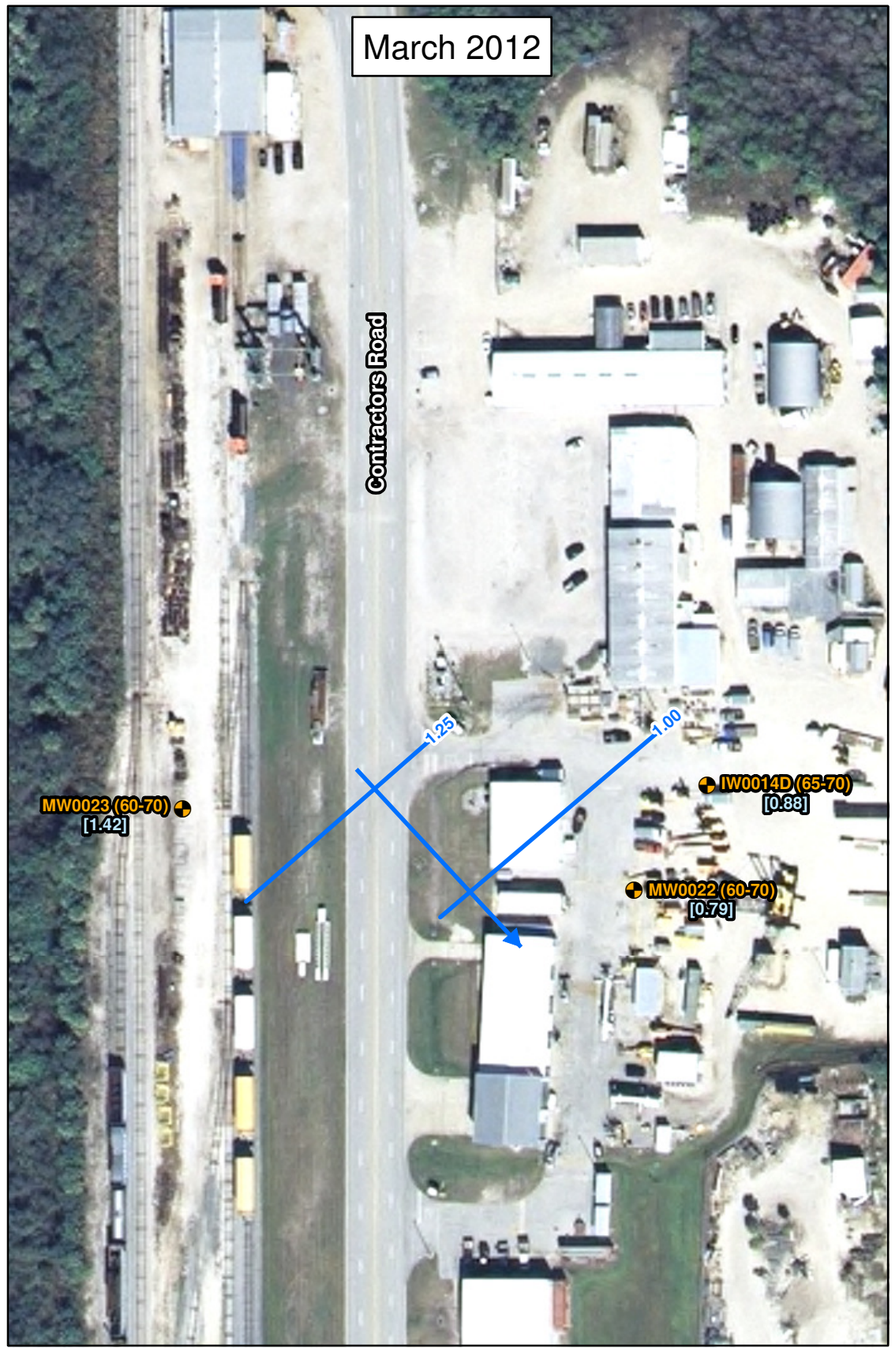
Legend

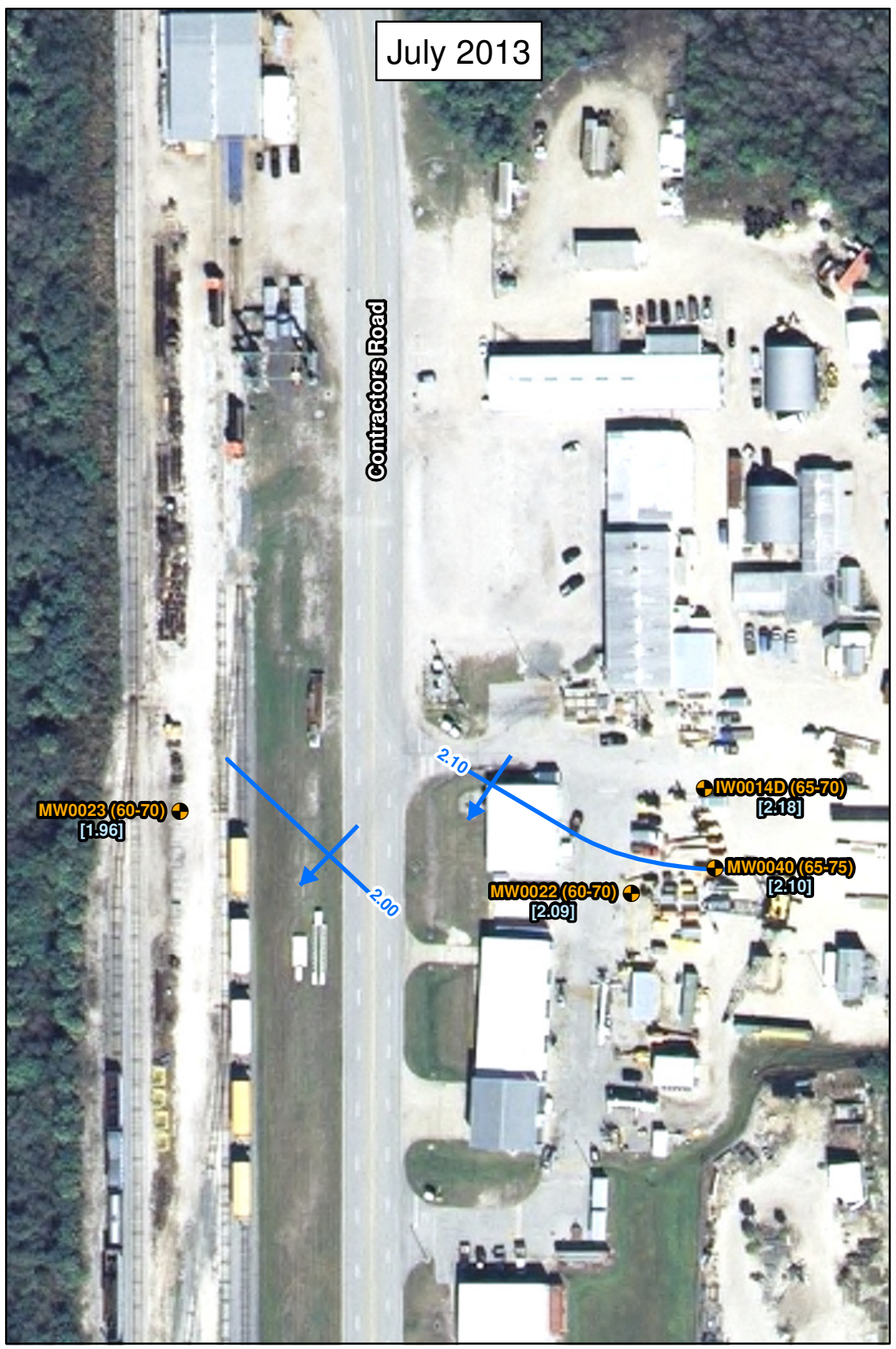
- Intermediate Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction

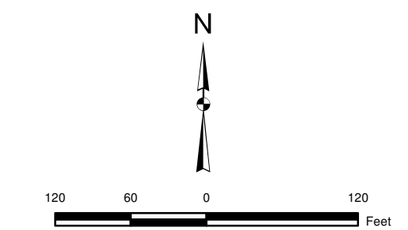
Notes:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.
3. * indicates value is not used to generate contour.

Path: (Titusville-01\Data\)T:\0GIS\FR1681_CRHE\MXDs\MARCH2012\GW_Elev_Intermediate.mxd 26 November 2013 JRB

Figure 7
Intermediate Groundwater Elevation Contours - March 2012







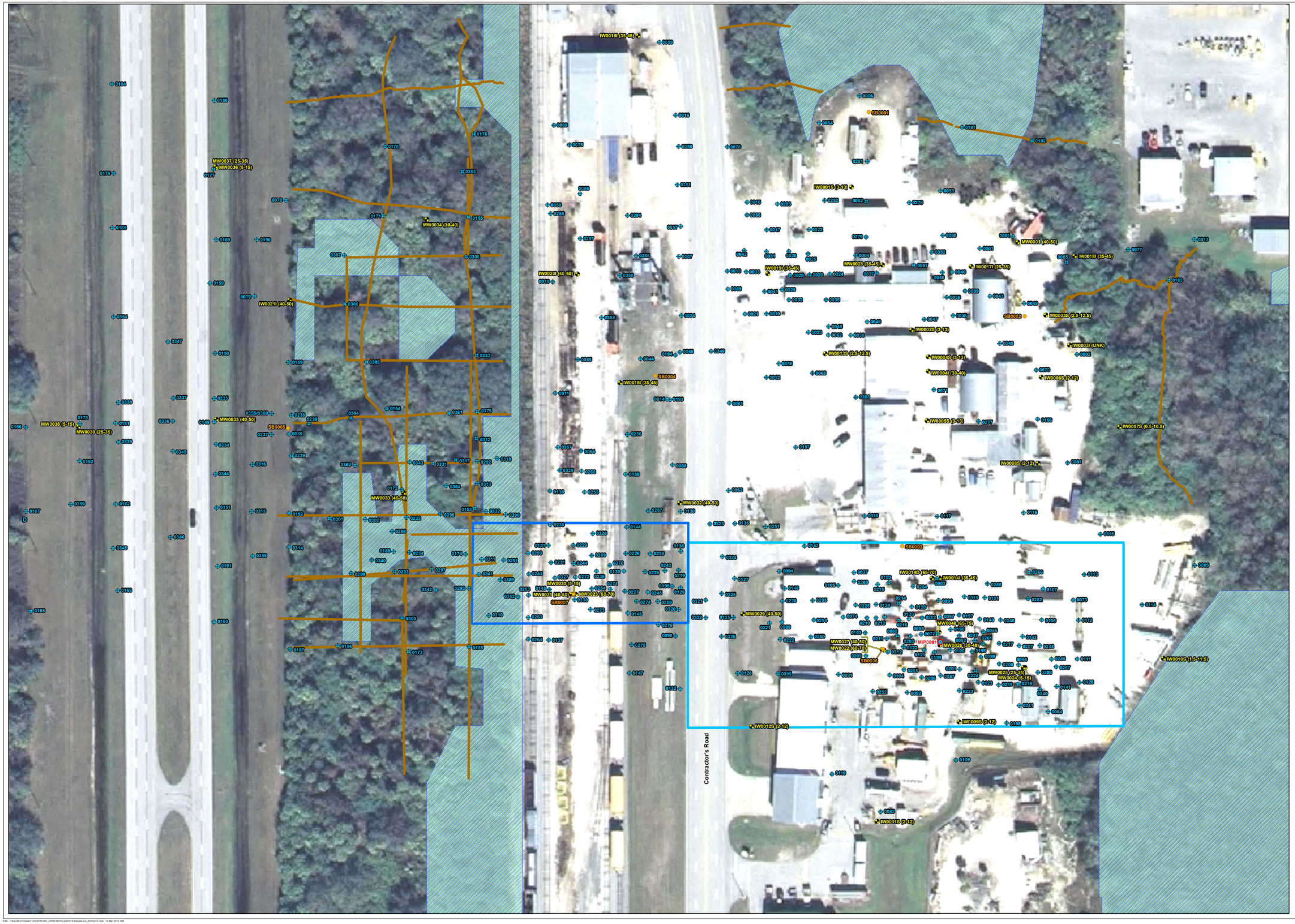
Legend

- Deep Monitoring Well Location showing (Screen Interval) and [Groundwater Elevation]
- Groundwater Elevation Contour
- Groundwater Flow Direction

Notes:
1. Screen interval is presented in feet, below land surface (ft, BLS).
2. Elevation is referenced to the North American Datum of 1988.

Path: (Titusville-01\Data\)T:\0GIS\FR1681_CRHE\MXDs\JAN2015\GW_Elev_Deep_MAR2012_JUL2013.mxd 13 Jan 2015 JRB

Figure 8
Deep Groundwater Elevation Contours - March 2012 and July 2013



N

50 25 0 50 Feet

Legend

- Membrane Interface Probe (MIP) Location
- Soil Boring Location
- DPT Sampling Location
- Monitoring Well Location (showing screen interval, ft BLS)
- Cleared Trails
- Hot Spot 2
- Hot Spot 1
- Wetlands

Notes:
1. ft BLS indicates feet below land surface.
2. UNK indicates an unknown screen interval.
3. All direct push technology (DPT) locations have a prefix of "CRHE-DPT".
4. All monitoring well locations have a prefex of "CHRE-".

Path: Z:\Aurelia-01\Data\27-102\SHP\F1001_CRHEWADAug2015SampleLocs_NOV2014.mxd - 12 Mar 2015 JRB

Figure 9
CRHE Area Sampling Location Figure

Legend

- DPT Sampling Location
- Intermediate Monitoring Well Location showing screen interval (ft BLS)
- Cleared Paths

Parameter	Abbreviation	GCTL	NADC
Tetrachloroethene	PCE	3	300
Trichloroethene	TCE	3	300
cis-1,2-Dichloroethene	cDCE	70	700
trans-1,2-Dichloroethene	tDCE	100	1,000
1,1-Dichloroethane	1,1-DCA	70	700
Vinyl Chloride	VC	1	100

Notes:
1. Screen interval is presented in feet below land surface (ft BLS).
2. Results are presented in micrograms per liter (µg/L).
3. J indicates result is between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. U indicates value was not detected above the method detection limit.
6. L indicates value exceeds the calibration range.
7. Yellow shaded, bold text indicates exceedance of Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level (GCTL).
8. Orange shaded, bold text indicates exceedance of FDEP Natural Attenuation Default Concentration (NADC).

Figure 10
CRHE Area Summary Groundwater Sampling Results - Northwestern Portion of Site

Path: T:\cadfile-01\Data\TIGIS\FIR381_CRHE\MXDs\NOV2014\DPT_NW_update_DEC2014.mxd 04 JANUARY 2013 JRB

DPT0069 (Feb-10)
DPT0018 (Jun-09)
DPT0033 (Jul-09)
DPT0042 (Aug-09)
DPT0076 (Feb-10)
DPT0059 (Jan-10)
DPT0015 (Jul-08)
DPT0031 (Jul-09)
DPT0017 (Jun-09)
DPT0026 (Jun-09)
DPT0083 (Jun-14)
DPT0051 (Jan-10)
DPT0098
DPT0021 (Jun-09)
DPT0056 (Jan-10)
DPT(-349 (Sep-14)
DPT0012 (Jul-06)
DPT0025 (Jun-09)
DPT0281 (Jun-14)
DPT0041 (Aug-09)
DPT0002 (Jun-09)
DPT0282 (Jun-14)
DPT0006 (May-06)
DPT0054 (Jun-09)
DPT0028 (Jun-09)
DPT0063 (Jun-09)
DPT0023 (Jun-09)
DPT0283 (Jun-14)
DPT0052 (Jan-10)
DPT0278 (May-14)
DPT0279 (May-14)
DPT0004 (May(Jul)-06)
DPT0024 (Jun-09)
DPT0027 (Jun-09)
DPT0181 (Feb-12)
DPT0067 (Feb-10)
DPT0053 (Jan-10)
DPT0280 (May-14)
DPT0050
DPT0063 (Nov-14)
DPT0071 (Feb-10)
DPT0045 (Jan-10)
DPT0062 (Jan-10)
DPT0019 (Jun-09)
DPT0048 (Jan-10)
DPT0020 (Jun-09)
DPT0070 (Feb-10)
DPT0002 (May-06)
DPT0001 (May-06)
DPT0040 (Aug-09)
DPT0029 (Jun-09)
DPT0077 (Feb-10)
DPT0013 (Jul-06)
IW0017I
IW0018I
DPT0063 (Aug-09)
DPT0005 (May-06)
DPT0049
DPT0039 (Aug-09)
DPT0036 (Jul-09)
DPT0183 (Feb-12)
DPT0066 (Jan-10)
DPT0047 (Jan-10)
DPT0038
DPT0046
DPT0052
DPT0182
DPT0025
DPT0270
DPT0279
DPT0004
DPT0024
DPT0027
DPT0181
DPT0182
DPT0067
DPT0053
DPT0001
DPT0040
DPT0029
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DPT0005
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DPT0035
DPT0022
DPT0080
DPT0062
DPT0045
DPT0019
DPT0048
DPT0020
DPT0070
DPT0002
DPT0001
DPT0040
DPT0029
DPT0077
DPT0013
IW0017I
IW0018I
DPT0063
DPT0005
DPT0049
DPT0039
DPT0036
DPT0038
DPT0046
DPT0047
DPT0052
DPT0182
DPT0025
DPT0270
DPT0279
DPT0004
DPT0024
DPT0027
DPT0181
DPT0182
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DPT0035
DPT0022
DPT0080
DPT0062
DPT0045
DPT0019
DPT0048
DPT0020
DPT0070
DPT0002
DPT0001
DPT0040
DPT0029
DPT0077
DPT0013
IW0017I
IW0018I
DPT0063

DPT0157 (Oct-11)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0 U	1.0 U	1.3	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	3.7	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	3.3	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	3.0	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0083 (Jun-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.3
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	**12.7**
46 to 50	1.0 U	1.0 U	1.9	1.0 U	NA	**5.7**
56 to 60	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0328 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	0.23 U	0.19 U	0.22 U	2.3	0.30 U	0.26 U
41 to 45	0.23 U	0.19 U	0.22 U	0.461	0.30 U	0.26 U
46 to 50	0.23 U	0.19 U	97	0.29 U	0.30 U	1.4
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U

DPT0135 (Aug-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	9.0	1.0 U	NA	**7.8**
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	72.6	NA	**2,500 L**
41 to 45	1.0 U	1.0 U	1.0 U	3.5	NA	**72.4**
46 to 50	1.0 U	1.0 U	1.3	1.0 U	NA	**3.7**

DPT0118 (Aug-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	2.6 U J	1.7 U J	1.7 U J	2.0 U J	NA	1.6 U J
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0251 (May-13)

Interval	PCE	TCE	cDCE	1,1-DCA	VC
8 to 12	0.23 U	0.19 U	1	0.29 U	NA	0.26 U
16 to 20	0.23 U	0.541	2.4	0.29 U	NA	**1.9**
21 to 25	0.23 U	0.19 U	0.541	0.29 U	NA	1.2
26 to 30	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U
31 to 35	0.23 U	0.19 U	0.22 U	7.7	NA	**97.5**
36 to 40	0.23 U	0.19 U	0.22 U	33.9	NA	**370**
41 to 45	0.23 U	0.19 U	1.5	0.59 J	NA	**7.2**
46 to 60	0.23 U	0.19 U	0.22 U	0.29 U	NA	0.26 U

DPT0277 (May-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	0.23 U	0.19 U	0.90 J	0.29 U	0.30 U	0.26 U
41 to 45	0.23 U	0.19 U	0.85 J	0.29 U	0.30 U	0.26 U
46 to 50	0.23 U	0.19 U	3.1	0.29 U	1	1
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U

DPT0117 (Aug-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	**11 U J**	**6.6 U J**	8.0 U J	20 U	NA	**6.4 U J**
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	**4.7**

DPT0156 (Oct-11)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.2	NA	1.0 U
46 to 50	1.0 U	1.0 U	2	1.0 U	NA	**12.3**

DPT0081 (Feb-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
56 to 60	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0116 (Aug-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	**18 U J**	**26 U J**	28 U J	100 U	NA	**21 U J**
20 to 30	**18 U J**	**26 U J**	28 U J	100 U	NA	**21 U J**
31 to 35	**9.0 U J**	**13 U J**	14 U J	50 U	NA	**11 U J**
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0115 (Jun-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0085 (Feb-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.3
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.3
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0114 (Jun-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	**3.6**
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	**1.9**
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0110 (Jun-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0109 (Jun-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

DPT0083 (Feb-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
16 to 20	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
26 to 30	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
31 to 35	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
36 to 40	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
41 to 45	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U
46 to 50	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U

N

30 15 0 30 Feet

Legend

- DPT Sampling Location
- Intermediate Monitoring Well Location showing screen interval (ft BLS)
- Cleared Paths
- Hot Spot 1

Parameter	Abbreviation	GCTL	NADC
Tetrachloroethene	PCE	3	300
Trichloroethene	TCE	3	300
cis-1,2-Dichloroethene	cDCE	70	700
trans-1,2-Dichloroethene	tDCE	100	1,000
1,1-Dichloroethane	1,1-DCA	70	700
Vinyl Chloride	VC	1	100

Notes:
1. Screen interval is presented in feet below land surface (ft BLS).
2. Results are presented in micrograms per liter (µg/L).
3. I indicates result is between the method detection limit and the practical quantitation limit.
4. J indicates estimated value.
5. U indicates value was not detected above the method detection limit.
6. L indicates value exceeds the calibration range.
7. Yellow shaded, bold text indicates exceedance of Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level (GCTL).
8. Orange shaded, bold text indicates exceedance of FDEP Natural Attenuation Default Concentration (NADC).

Figure 12
CRHE Area Summary Groundwater Sampling Results - Southeastern Portion of Site

DPT0166

DPT0178 (Jan-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	1.0U
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0178

DPT0192

DPT0192 (Oct-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
21 to 25	1.0U	1.0U	1.0U	1.0U	NA	1.0U
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	1.0U
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0359

DPT0359 (Nov-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	20	3.1	0.30 U	**131**
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.45 J
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
46 to 50	0.23 U	0.17 U	0.46 J	0.36 U	0.15 U	0.91 J
51 to 55	0.23 U	0.17 U	0.16 U	0.16 U	0.15 U	0.36 U
56 to 60	1.2 U	0.20 U	0.40 U	0.40 U	0.40 U	0.80 U

DPT0167

DPT0167 (Jan-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	1.0U
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0348

DPT0348 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0168

DPT0168 (Jan-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	1.0U
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0178

DPT0161

DPT0161 (Oct-11 & Feb-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0U	1.0U	1.0U	1.0U	NA	1.0U
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	**110**
31 to 35	1.0U	1.0U	3.6	4.4	NA	**1100**
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	**2.2**
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0345

DPT0345 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	1.1
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1,200**
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1,500**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**530**
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**8.8 J**

DPT0151

DPT0151 (Oct-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.3
36 to 40	2.6 U J	**5.2**	**220**	11.0	NA	**280**
41 to 45	1.0U	1.0U	6.7	11.0	NA	**30.4**
46 to 50	1.0U	1.0U	1.0U	1.6	NA	**37.3**
51 to 55	1.0U	1.0U	1.0U	1.0U	NA	1.0U
56 to 60	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0359

DPT0162

DPT0162 (Oct-11)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	**83**	4.2 J	NA	**160**
36 to 40	1.0U	1.0U	4.4	1.0U	NA	**14**
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U
51 to 55	1.0U	1.0U	1.0U	1.0U	NA	1.0U
56 to 60	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0151

DPT0314

DPT0314 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	0.23 U	0.19 U	31.2	3.3	0.30 U	**63.5**
41 to 45	0.23 U	0.19 U	28	2.2	0.30 U	**63.0**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0346

DPT0191

DPT0191 (Jun-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	4.6 U	3.8 U	**1,200**	45	6.0 U	**1,600**
36 to 40	2.3 U	**37 J**	**4,900**	**140**	**30 U**	**3,100**
41 to 45	**12 U**	**180**	**2,100**	92	**15 U**	**560**
46 to 50	0.23 U	0.77 J	**210**	7.2	0.30 U	**63.3**
56 to 60	0.23 U	0.19 U	1	0.29 U	0.30 U	0.36 U

DPT0163

DPT0163 (Oct-11)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	1.0U
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	**2.2**

DPT0299

DPT0299 (Jan-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.82 J	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	0.22 U	1.3	0.30 U	**44.3**
41 to 45	0.23 U	0.19 U	0.33 J	1.7	0.30 U	**36.2**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0336

DPT0336 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	3.8 U	0.91 J	0.30 U	**1,200**
36 to 40	4.6 U	3.8 U	4.4 U	131	6.0 U	**2,400**
41 to 45	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**140**
46 to 50	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	2.4 J
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.51 J
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3.4**

DPT0334

DPT0334 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	3.8 U	0.91 J	0.30 U	**1,200**
36 to 40	0.23 U	0.19 U	3.7	9.2	0.30 U	**1,500**
41 to 45	2.3 U	1.9 U	4.9 J	3.5 J	3.0 U	**530**
46 to 50	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**8.8 J**
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3**

DPT0344

DPT0344 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	1.9 U	**100**	2.9 U	**26.0**
41 to 45	0.23 U	0.19 U	0.91 J	3.3	0.89 J	**5.3**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**29.0**
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.78 J	0.29 U	0.30 U	0.36 U

DPT0315

DPT0315 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	2.3 U	1.9 U	**650**	14	3.0 U	**290**
41 to 45	2.3 U	1.9 U	**1,100**	18 J	3.0 U	**640**
46 to 50	0.23 U	0.19 U	20.3	0.29 U	0.30 U	**3.2**
56 to 60	0.23 U	0.19 U	34.1	0.37 J	0.30 U	**6.3**

DPT0152

DPT0152 (Oct-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0U	1.0U	1.0U	1.0U	NA	1.0U
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	**2.5**
41 to 45	2.6 U J	**4.0 J**	**300**	17.0	NA	**360**
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0356

DPT0356 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0150

DPT0150 (Oct-11)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	1.0U
41 to 45	1.0U	1.0U	1.0U	1.0U	NA	1.0U
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0299

DPT0299 (Jan-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.82 J	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	0.22 U	1.3	0.30 U	**44.3**
41 to 45	0.23 U	0.19 U	0.33 J	1.7	0.30 U	**36.2**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0348

DPT0348 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	5.3	1.5	0.30 U	**26.0**
41 to 45	0.23 U	0.19 U	1.8	0.29 U	0.30 U	**7.8**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
51 to 55	0.23 U	0.19 U	0.24 J	0.29 U	0.30 U	0.78 J
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0349

DPT0349 (Jan-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	50	6.71	3.0 U	**450**
36 to 40	2.3 U	1.9 U	**560**	20	3.0 U	**280**
41 to 45	2.3 U	1.9 U	5.6	1.2	0.30 U	**45.2**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0340

DPT0340 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.54 J	0.30 U	0.36 U
36 to 40	4.6 U	3.8 U	**350**	14 J	6.0 U	**460**
41 to 45	4.6 U	3.8 U	**320**	13 J	6.0 U	**450**
46 to 50	1.2 U	0.95 U	4.5 J	1.5 U	1.5 U	**43.0**
56 to 60	0.23 U	0.19 U	0.38 J	0.29 U	0.30 U	0.36 U

DPT0234

DPT0234 (Apr-13)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
16 to 20	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
21 to 25	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
26 to 30	0.16 U	0.16 U	2.2	0.2 U	0.28 U	NA
31 to 35	0.16 U	0.22 U	4.5	NA	NA	**46**
36 to 40	1.6 U	2.2 U	**360**	20	NA	**500**
41 to 45	**8 U**	**11 U**	**2,400**	50	NA	**800**
56 to 60	0.16 U	0.22 U	4.8	0.28 U	NA	**1.6**

DPT0233

DPT0233 (Apr-13)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
16 to 20	0.16 U	1.4	1.1	0.28 U	NA	0.13 U
21 to 25	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
26 to 30	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
31 to 35	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
36 to 40	1.6 U	2.2 U	**360**	20	NA	**500**
41 to 45	**8 U**	**11 U**	**2,400**	50	NA	**800**
46 to 50	1.2 U	0.95 U	4.8 J	1.5 U	1.5 U	**46**
56 to 60	0.16 U	0.22 U	4.8	0.28 U	NA	**1.6**

DPT0341

DPT0341 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	2.8	4.7	0.30 U	**100**
41 to 45	**12 U**	**9.5 U**	**1,300**	281	**15 U**	**560**
46 to 50	2.3 U	1.9 U	**140**	2.9 U	3.0 U	**36.0**
51 to 55	0.23 U	0.19 U	4.7	0.33 J	0.30 U	7.6
56 to 60	0.23 U	0.19 U	22.3	0.41 J	0.30 U	**8.9**

DPT0342

DPT0342 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.49 J	0.30 U	0.29 J
36 to 40	0.23 U	0.19 U	0.22 U	1.3	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.74 J	0.30 U	**5.2**
46 to 50	0.23 U	0.19 U	26.2	2.8	0.30 U	**120**
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.77 J

DPT0300

DPT0300 (Jun-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0149

DPT0149 (Oct-10 & Oct-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0U	1.0U	1.0U	1.0U	NA	1.0U
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	**100**
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	**2,300**
36 to 40	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**140**
41 to 45	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**24.1**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.51 J
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3.4**

DPT0316

DPT0316 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
21 to 25	1.0U	1.0U	1.0U	1.0U	NA	1.0U
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	9.0	5.4	NA	**1,400**
41 to 45	1.0U	1.0U	21.6	15.2	NA	**2,000**
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	**75.8**
56 to 60	1.0U	1.0U	1.0U	1.0U	NA	**2.0**

DPT0315

DPT0315 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	2.3 U	1.9 U	**650**	14	3.0 U	**290**
41 to 45	2.3 U	1.9 U	**1,100**	18 J	3.0 U	**640**
46 to 50	0.23 U	0.19 U	20.3	0.29 U	0.30 U	**3.2**
56 to 60	0.23 U	0.19 U	34.1	0.37 J	0.30 U	**6.3**

DPT0080

DPT0080 (Feb-10)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
21 to 25	1.0U	1.0U	1.0U	1.0U	NA	1.0U
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	9.0	5.4	NA	**1,400**
41 to 45	1.0U	1.0U	21.6	15.2	NA	**2,000**
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	**75.8**
56 to 60	1.0U	1.0U	1.0U	1.0U	NA	**2.0**

DPT0356

DPT0356 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
51 to 55	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0150

DPT0150 (Oct-11)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	1.0U
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	1.0U
36 to 40	1.0U	1.0U	1.0U	1.0U	NA	**3.2**
41 to 45	1.0U	1.0U	1.0U	7.4	1.8	NA
46 to 50	1.0U	1.0U	1.0U	1.0U	NA	1.0U

DPT0299

DPT0299 (Jan-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.82 J	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	0.22 U	1.3	0.30 U	**44.3**
41 to 45	0.23 U	0.19 U	0.33 J	1.7	0.30 U	**36.2**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0348

DPT0348 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	5.3	1.5	0.30 U	**26.0**
41 to 45	0.23 U	0.19 U	1.8	0.29 U	0.30 U	**7.8**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
51 to 55	0.23 U	0.19 U	0.24 J	0.29 U	0.30 U	0.78 J
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0349

DPT0349 (Jan-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	50	6.71	3.0 U	**450**
36 to 40	2.3 U	1.9 U	**560**	20	3.0 U	**280**
41 to 45	2.3 U	1.9 U	5.6	1.2	0.30 U	**45.2**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0340

DPT0340 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.54 J	0.30 U	0.36 U
36 to 40	4.6 U	3.8 U	**350**	14 J	6.0 U	**460**
41 to 45	4.6 U	3.8 U	**320**	13 J	6.0 U	**450**
46 to 50	1.2 U	0.95 U	4.5 J	1.5 U	1.5 U	**43.0**
56 to 60	0.23 U	0.19 U	0.38 J	0.29 U	0.30 U	0.36 U

DPT0234

DPT0234 (Apr-13)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
16 to 20	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
21 to 25	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
26 to 30	0.16 U	0.16 U	2.2	0.2 U	0.28 U	NA
31 to 35	0.16 U	0.22 U	4.5	NA	NA	**46**
36 to 40	1.6 U	2.2 U	**360**	20	NA	**500**
41 to 45	**8 U**	**11 U**	**2,400**	50	NA	**800**
56 to 60	0.16 U	0.22 U	4.8	0.28 U	NA	**1.6**

DPT0233

DPT0233 (Apr-13)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
16 to 20	0.16 U	0.16 U	1.4	1.1	0.28 U	NA
21 to 25	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
26 to 30	0.16 U	0.16 U	0.22 U	0.2 U	0.28 U	NA
31 to 35	0.16 U	0.22 U	4.5	NA	NA	**46**
36 to 40	1.6 U	2.2 U	**360**	20	NA	**500**
41 to 45	**8 U**	**11 U**	**2,400**	50	NA	**800**
46 to 50	1.2 U	0.95 U	4.8 J	1.5 U	1.5 U	**46**
56 to 60	0.16 U	0.22 U	4.8	0.28 U	NA	**1.6**

DPT0341

DPT0341 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
36 to 40	0.23 U	0.19 U	2.8	4.7	0.30 U	**100**
41 to 45	**12 U**	**9.5 U**	**1,300**	281	**15 U**	**560**
46 to 50	2.3 U	1.9 U	**140**	2.9 U	3.0 U	**36.0**
51 to 55	0.23 U	0.19 U	4.7	0.33 J	0.30 U	7.6
56 to 60	0.23 U	0.19 U	22.3	0.41 J	0.30 U	**8.9**

DPT0342

DPT0342 (Sep-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
31 to 35	0.23 U	0.19 U	0.22 U	0.49 J	0.30 U	0.29 J
36 to 40	0.23 U	0.19 U	0.22 U	1.3	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.74 J	0.30 U	**5.2**
46 to 50	0.23 U	0.19 U	26.2	2.8	0.30 U	**120**
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.77 J

DPT0300

DPT0300 (Jun-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
36 to 40	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
41 to 45	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.36 U

DPT0149

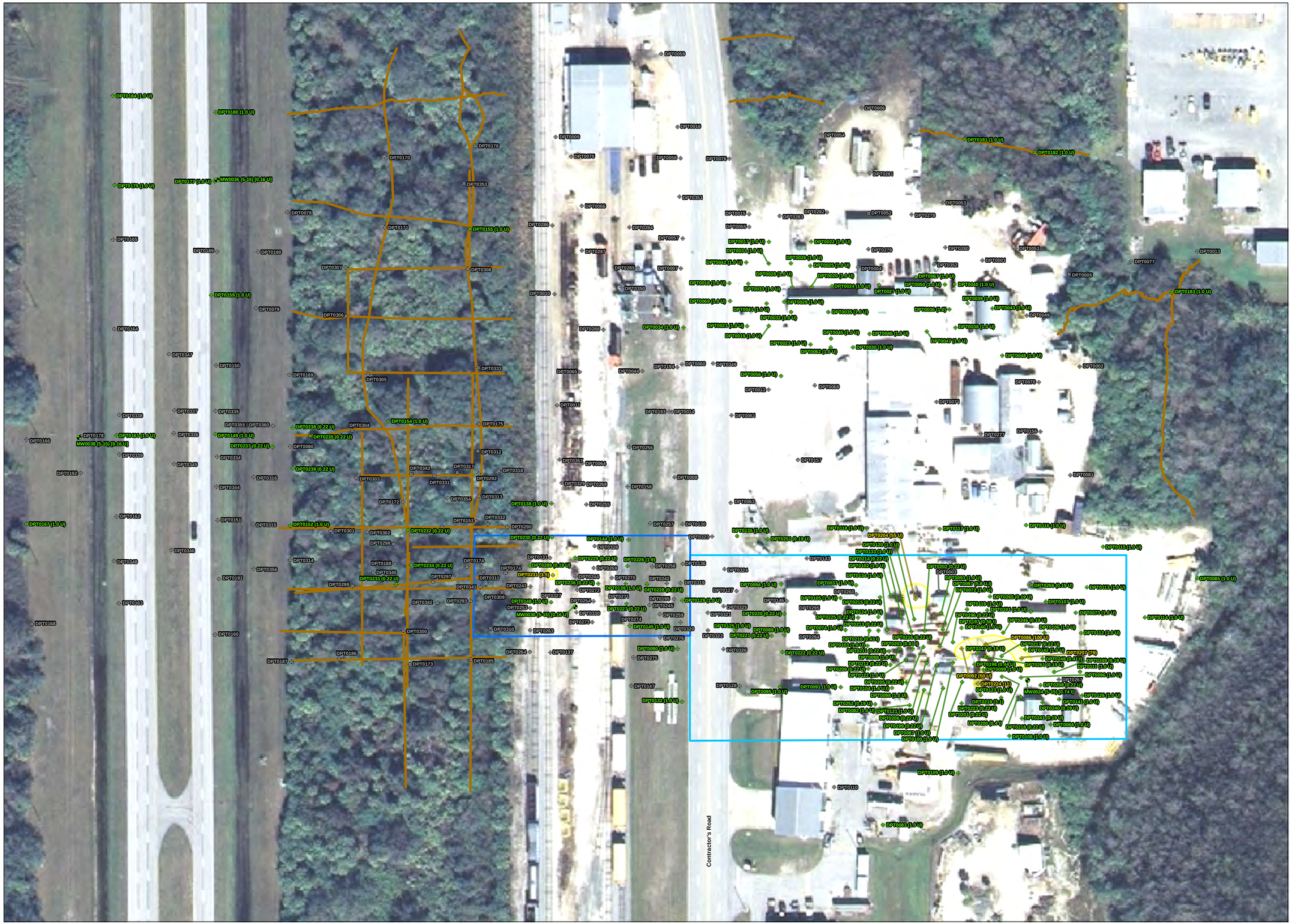
DPT0149 (Oct-10 & Oct-12)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
8 to 12	1.0U	1.0U	1.0U	1.0U	NA	1.0U
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
26 to 30	1.0U	1.0U	1.0U	1.0U	NA	**100**
31 to 35	1.0U	1.0U	1.0U	1.0U	NA	**2,300**
36 to 40	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**140**
41 to 45	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**24.1**
46 to 50	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.51 J
56 to 60	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3.4**

DPT0316

DPT0316 (Aug-14)

Interval	PCE	TCE	cDCE	tDCE	1,1-DCA	VC
16 to 20	1.0U	1.0U	1.0U	1.0U	NA	1.0U
21 to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DPT0180 (1.0 U)
DPT0179 (1.0 U)
DPT0177 (1.0 U)
MW0036 (5-15) [0.16 U]
DPT0165
DPT0184
DPT0347
DPT0338
DPT0337
DPT0335
DPT0336
DPT0339
DPT0334
DPT0345
DPT0192
DPT0316
DPT0344
DPT0162
DPT0167 (1.0 U)
DPT0346
DPT0348
DPT0314
DPT0356
DPT0191
DPT0169
DPT0168
DPT0160
DPT0187
DPT0186
DPT0150
DPT0159 (1.0 U)
DPT0079
DPT0078
DPT0170
DPT0176
DPT0353
DPT0171
DPT0155 (1.0 U)
DPT0190
DPT0307
DPT0308
DPT0306
DPT0305
DPT0333
DPT0169
DPT0166
DPT0178
DPT0161 (1.0 U)
DPT0149 (1.0 U)
DPT0237 (0.22 U)
DPT0239 (0.22 U)
DPT0238 (0.22 U)
DPT0235 (0.22 U)
DPT0154 (1.0 U)
DPT0175
DPT0304
DPT0080
DPT0312
DPT0343
DPT0317
DPT0318
DPT0303
DPT0331
DPT0292
DPT0316
DPT0344
DPT0313
DPT0354
DPT0172
DPT0153
DPT0332
DPT0138 (1.0 U)
DPT0152 (1.0 U)
DPT0301
DPT0302
DPT0232 (0.22 U)
DPT0290
DPT0298
DPT0188
DPT0234 (0.22 U)
DPT0174
DPT0340
DPT0233 (0.22 U)
DPT0297
DPT0311
DPT0299
DPT0341
DPT0243
DPT0309
DPT0342
DPT0293
DPT0227
DPT0148 (1.0 U)
DPT0253
MW0030 (5-15) [0.16 U]
DPT0310
DPT0263
DPT0300
DPT0173
DPT0185
DPT0264
DPT0137
DPT0286
DPT0284
DPT0287
DPT0285
DPT0007
DPT0350
DPT0010
DPT0288
DPT0034 (1.0 U)
DPT0065
DPT0044
DPT0194
DPT0069
DPT0012
DPT0011
DPT0193
DPT0014
DPT0061
DPT0256
DPT0357
DPT0064
DPT0220
DPT0208
DPT0158
DPT0008
DPT0255
DPT0257
DPT0130
DPT0328
DPT0131
DPT0220 (0.40 U)
DPT0174
DPT0220 (0.22 U)
DPT0226 (1.9)
DPT0258
DPT0299
DPT0231 (3.5)
DPT0236 (0.22 U)
DPT0244
DPT0270
DPT0242
DPT0319
DPT0272
DPT0103 (1.0 U)
DPT0220 (0.22 U)
DPT0274
DPT0145 (1.0 U)
DPT0320
DPT0289
DPT0276
DPT0080 (1.0 U)
DPT0275
DPT0137
DPT0147
DPT0132 (1.0 U)
DPT0069
DPT0049
DPT0017 (1.0 U)
DPT0031 (1.0 U)
DPT0042 (1.0 U)
DPT0220 (1.0 U)
DPT0035 (1.0 U)
DPT0039 (1.0 U)
DPT0222 (1.0 U)
DPT0024 (1.0 U)
DPT0027 (1.0 U)
DPT0030 (1.0 U)
DPT0041 (1.0 U)
DPT0023 (1.0 U)
DPT0021 (1.0 U)
DPT0018 (1.0 U)
DPT0022 (1.0 U)
DPT0032 (1.0 U)
DPT0045 (1.0 U)
DPT0044 (1.0 U)
DPT0030 (1.0 U)
DPT0065 (1.0 U)
DPT0012
DPT0068
DPT0061
DPT0256
DPT0157
DPT0008
DPT0158
DPT0093
DPT0006
DPT0064
DPT0016
DPT0009
DPT0075
DPT0058
DPT0076
DPT0281
DPT0061
DPT0066
DPT0078
DPT0171
DPT0155 (1.0 U)
DPT0286
DPT0284
DPT0057

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest TCE Concentration)

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- TCE concentration greater than 3,000 µg/L (10X NADC)
- TCE concentration greater than 10,000 µg/L (Source Zone)

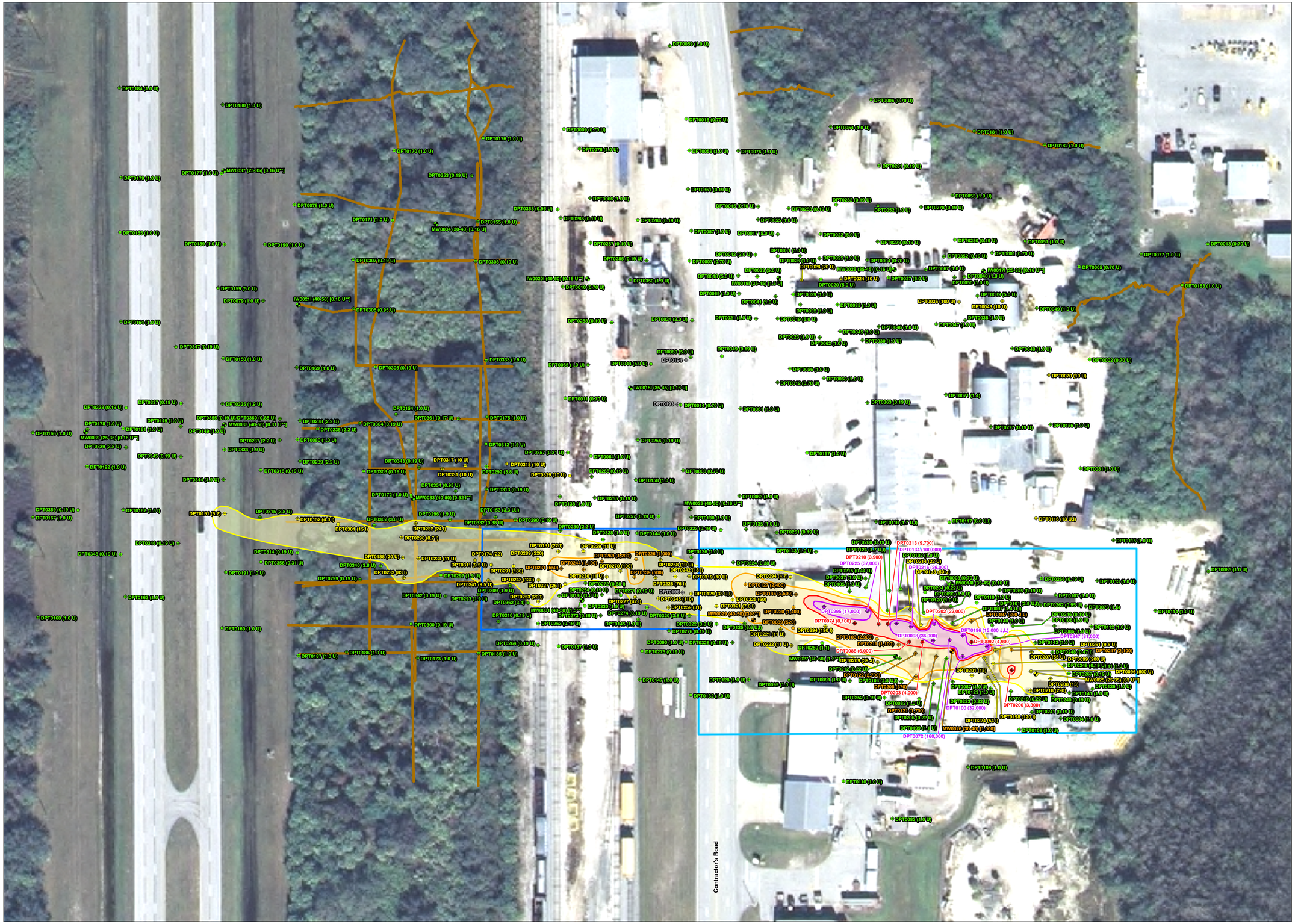
Monitoring Well Location showing (screen interval (ft BLS) and [TCE Concentration])

- TCE concentration less than or equal to 3 µg/L
- TCE concentration greater than 3 µg/L (GCTL)
- TCE concentration greater than 300 µg/L (NADC)
- 3 µg/L TCE Isopleth
- 300 µg/L TCE Isopleth
- 3,000 µg/L TCE Isopleth
- Source Zone (1% TCE Solubility Plume)
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. GCTL indicates Groundwater Cleanup Target Level.
7. NADC indicates Natural Attenuation Default Concentration.
8. Prefix for all sampling locations is "CRHE-".
9. ** indicates well screens fall within more than one mapping interval.
10. *** indicates result was not used for contouring as the well screen falls within more than one mapping interval.
11. Only monitoring wells that were sampled in March 2012 & December 2013 are shown on this map.

Contractor's Road

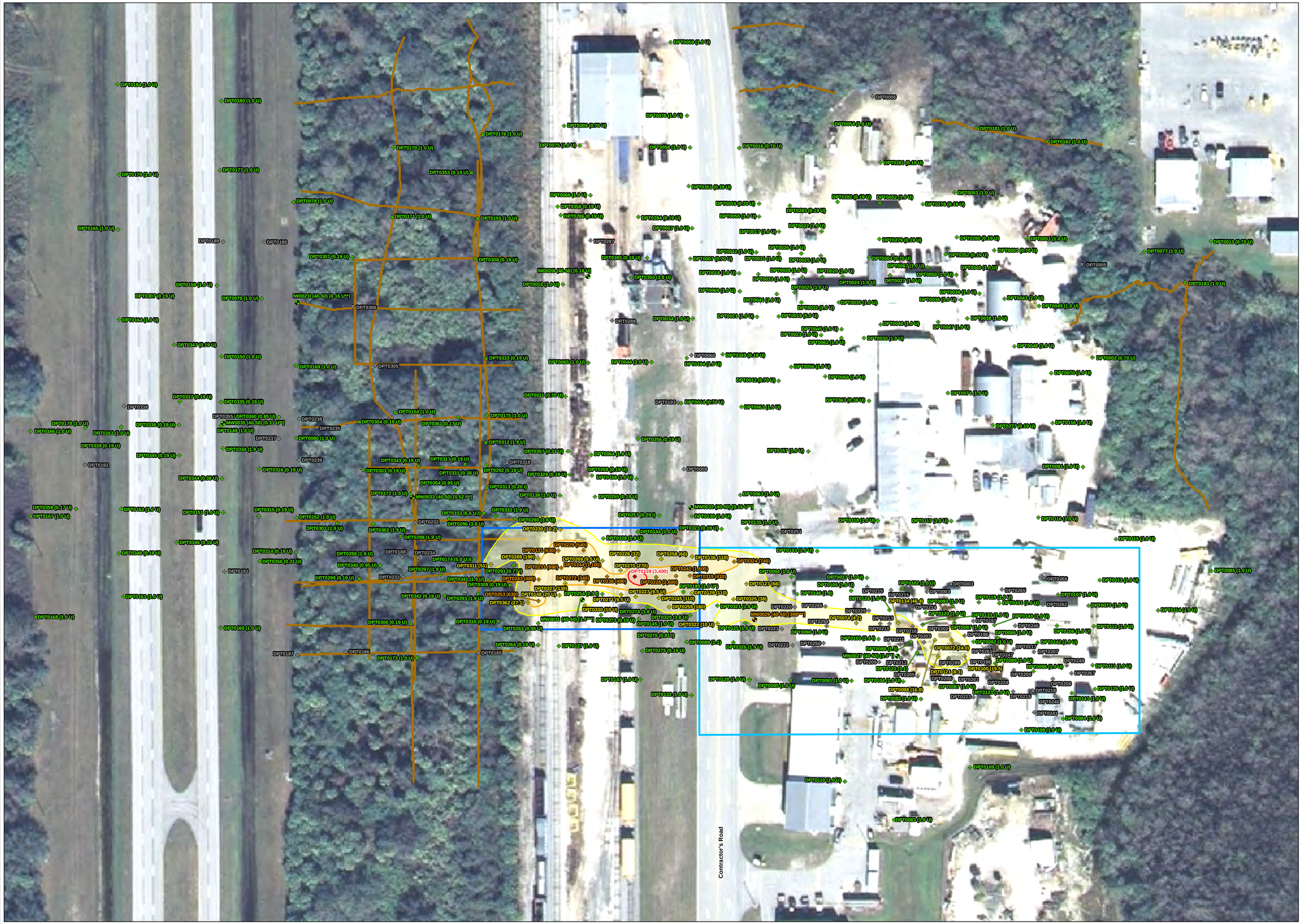
Figure 15
CRHE Area Summary of TCE Results in Groundwater 16 to 30 ft BLS



Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. * indicates result was not used for contouring.
7. ** indicates well screens fall within more than one mapping interval.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. Only monitoring wells that were sampled in March 2012 & December 2013 are shown on this map.
12. Dashed line without shading indicates contour was based on "U" values.

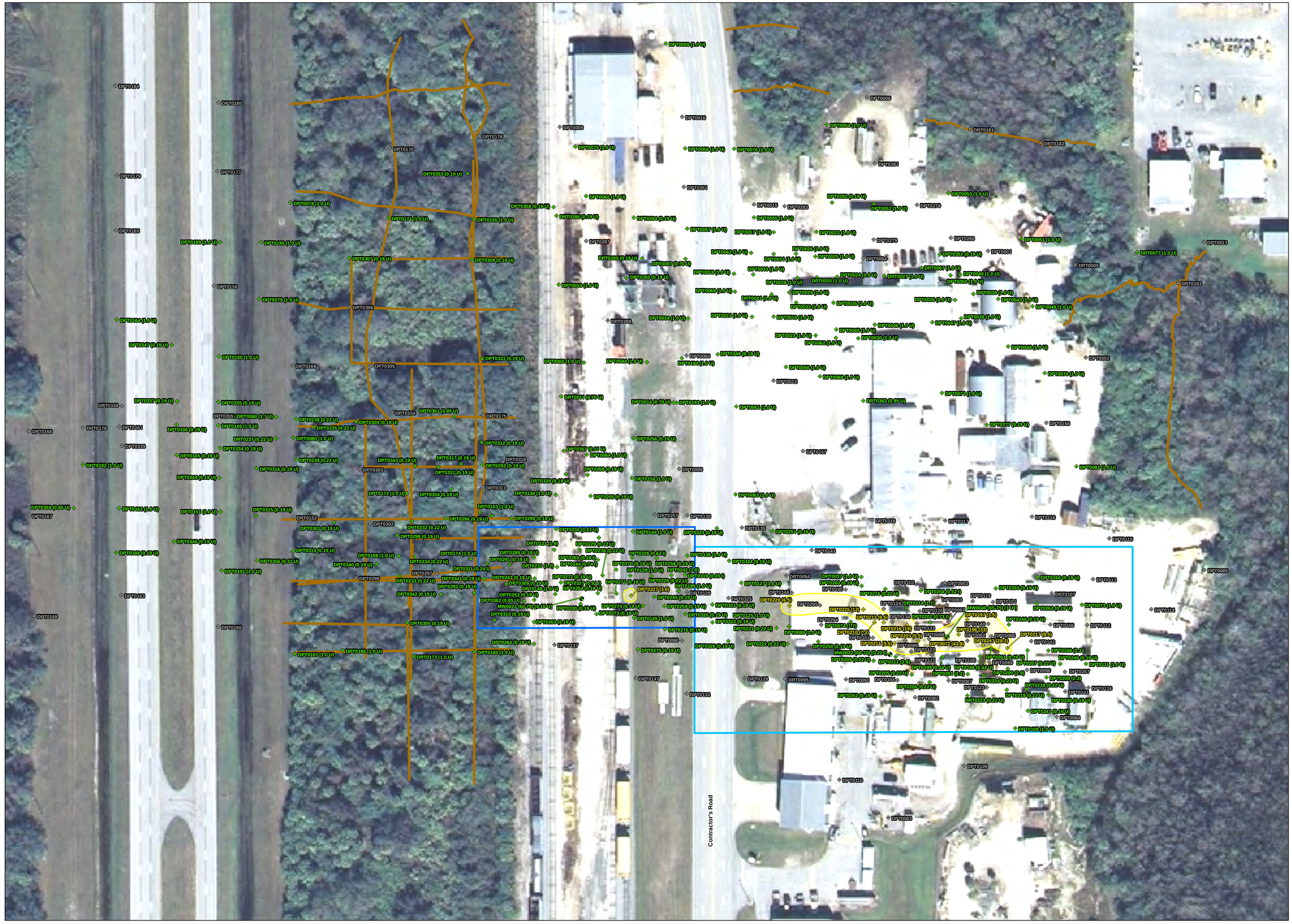
Path: I:\Tsubville-01\Data\P-0\GIS\FIR\081_CRHE\MXDs\OCT2014\TCE_31_to46_ftbls_OCT2014.mxd 23 Mar 2015 MAH

Figure 16
CRHE Area Summary of TCE Results in Groundwater 31 to 46 ft BLS



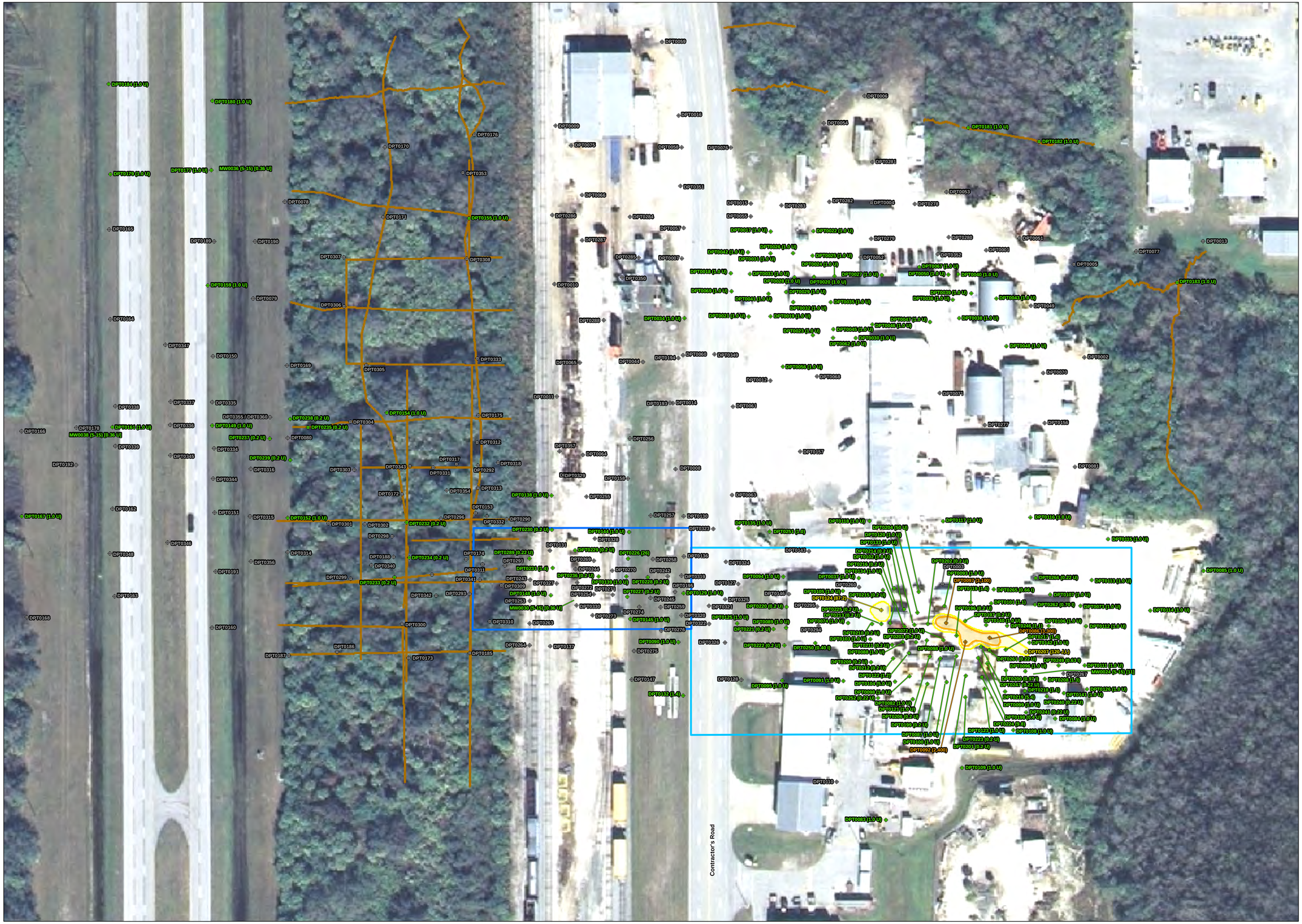
Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. * indicates result was not used for contouring.
7. ** indicates well screens fall within more than one mapping interval.
8. *** indicates result was not used for contouring as the well screen falls within more than one mapping interval.
9. GCTL indicates Groundwater Cleanup Target Level.
10. NADC indicates Natural Attenuation Default Concentration.
11. Prefix for all sampling locations is "CRHE-".
12. Only monitoring wells that were sampled in March 2012 & December 2013 are shown on this map.
13. DPT0195 data is from 51 to 55 ft BLS which is deeper than DPT0129 data, so it was not used for contouring.

Figure 17
CRHE Area Summary of TCE Results in Groundwater 46 to 56 ft BLS



Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. TCE indicates trichloroethene.
4. U indicates value was not detected above the method detection limit.
5. GCTL indicates Groundwater Cleanup Target Level.
6. NADC indicates Natural Attenuation Default Concentration.
7. Prefix for all sampling locations is "CRHE-".
8. Data presented is from the bottom depth interval for each location.
9. * indicates not used for contouring.

Figure 18
CRHE Area Summary of TCE Results in Groundwater Greater than 56 ft BLS



Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

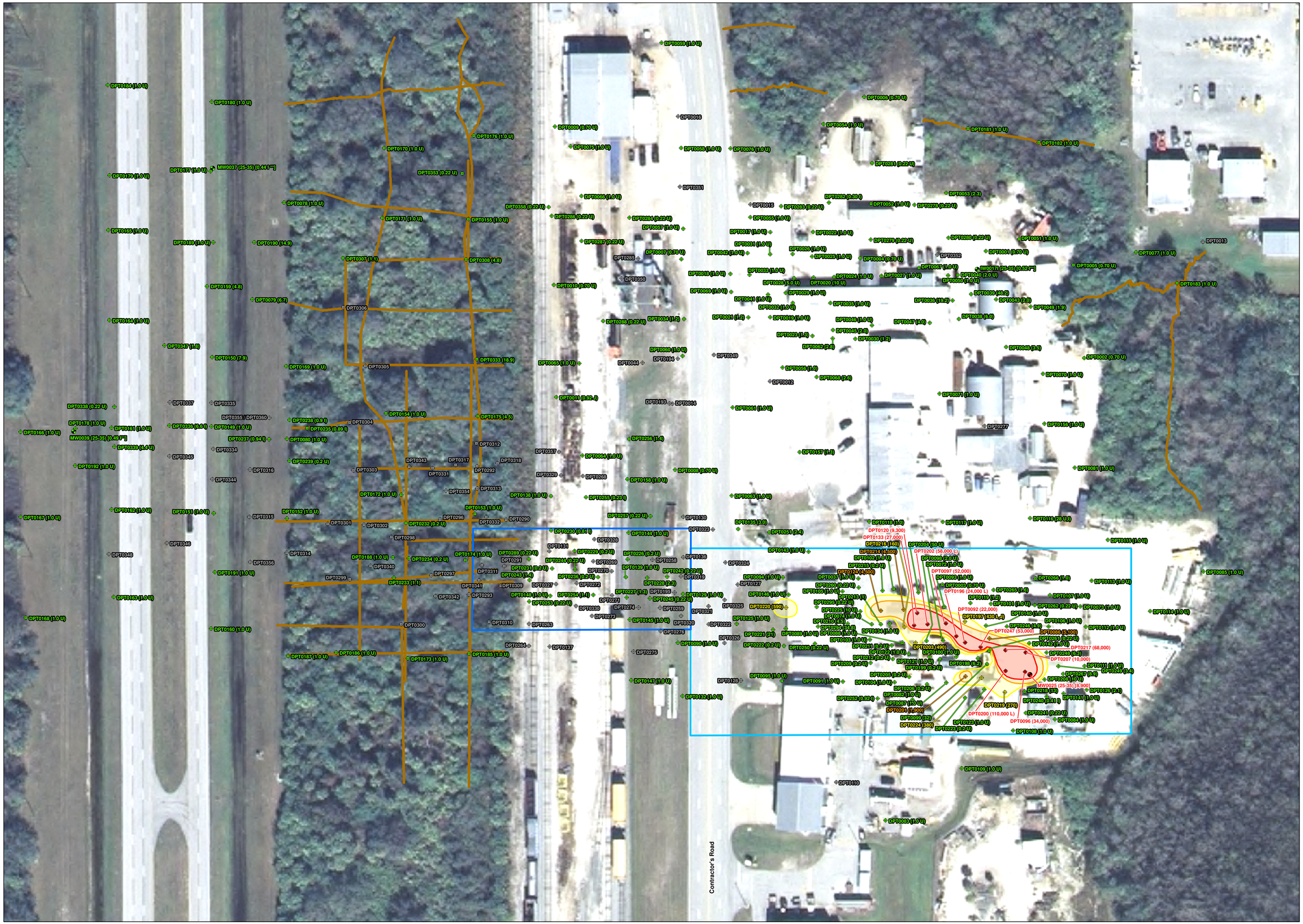
- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. Results are presented in micrograms per liter (µg/L).
2. ft BLS indicates feet below land surface.
3. U indicates value was not detected above the method detection limit.
4. cDCE indicates cis-1,2-dichloroethene.
5. GCTL indicates Groundwater Cleanup Target Level.
6. NADC indicates Natural Attenuation Default Concentration.
7. Prefix for all sampling locations is "CRHE-".

Figure 19
CRHE Area Summary of cDCE Results in Groundwater 8 to 16 ft BLS



Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. U indicates value was not detected above the method detection limit.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. cDCE indicates cis-1,2-dichloroethene.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. ** indicates well screens fall within more than one mapping interval.

Figure 20
CRHE Area Summary of cDCE Results in Groundwater 16 to 30 ft BLS

N

50 25 0 50
Feet

Legend

DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- cDCE concentration greater than 7,000 µg/L (10X NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- cDCE concentration greater than 7,000 µg/L (NADC)

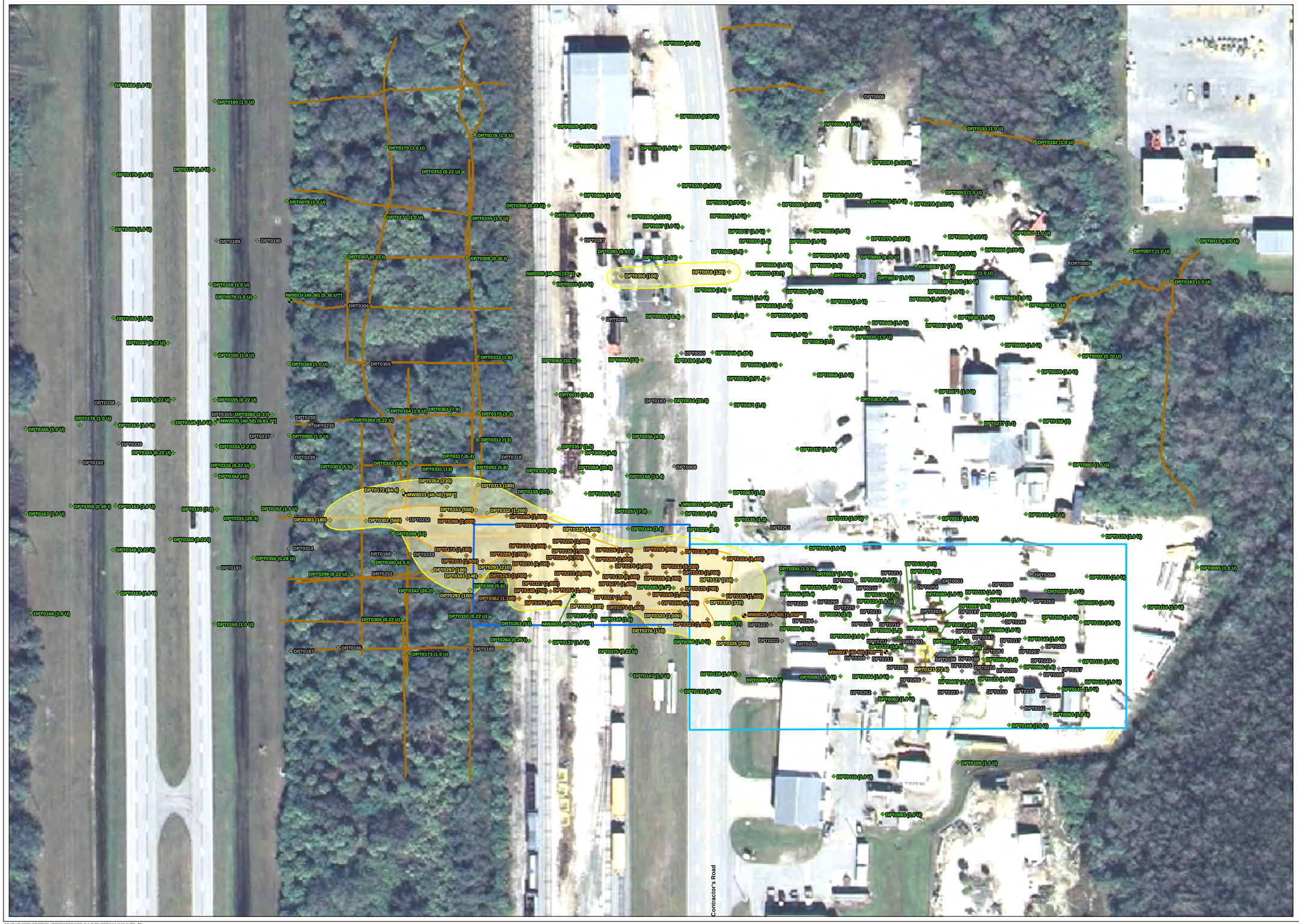
- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- 7,000 µg/L cDCE Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. U indicates value was not detected above the method detection limit.
6. * indicates result was not used for contouring.
7. ** indicates well screens fall within more than one mapping interval.
8. *** indicates result was not used for contouring as the well screen falls within more than one mapping interval.
9. GCTL indicates Groundwater Cleanup Target Level.
10. NADC indicates Natural Attenuation Default Concentration.
11. Prefix for all sampling locations is "CRHE-".
12. Only monitoring wells that were sampled in November 2009 are shown on this map.

Contractor's Road

Path: I:\Business-91\DATA\ P-0\DISTFR\581_CRHE\MXDs\OCT2014\cDCE_31_to46_lbls_OCT2014.mxd 23 March 2015 MAH

Figure 21
CRHE Area Summary of cDCE Results in Groundwater 31 to 46 ft BLS



N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

- 70 µg/L cDCE Isopleth
- 700 µg/L cDCE Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. U indicates value was not detected above the method detection limit.
7. * indicates result was not used for contouring.
8. ** indicates well screens fall within more than one mapping interval.
9. *** indicates result was not used for contouring as the well screen falls within more than one mapping interval.
10. DPT0195 data is from 51 to 55 ft BLS which is deeper than DPT0129 data, so it was not used for contouring.
11. GCTL indicates Groundwater Cleanup Target Level.
12. NADC indicates Natural Attenuation Default Concentration.
13. Prefix for all sampling locations is "CRHE-".
14. Only monitoring wells that were sampled in November 2009 are shown on this map.

Path: J:\Tasville-EIS\DATA\ TYDS\FIFR\181_CRHEWMSmOCT2014\cDCE_46_to_56_fbls_OCT2014.mxd 14 January 2015 JRB

Figure 22
CRHE Area Summary of cDCE Results in Groundwater 46 to 56 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest cDCE Concentration)

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [cDCE Concentration])

- cDCE concentration less than or equal to 70 µg/L
- cDCE concentration greater than 70 µg/L (GCTL)
- cDCE concentration greater than 700 µg/L (NADC)
- 70 µg/L cDCE Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. cDCE indicates cis-1,2-dichloroethene.
4. U indicates value was not detected above the method detection limit.
5. GCTL indicates Groundwater Cleanup Target Level.
6. NADC indicates Natural Attenuation Default Concentration.
7. Prefix for all sampling locations is "CRHE-".
8. Data presented is from the bottom depth interval for each location.

Contractor's Road

Figure 23
CRHE Area Summary of cDCE Results in Groundwater Greater than 56 ft BLS

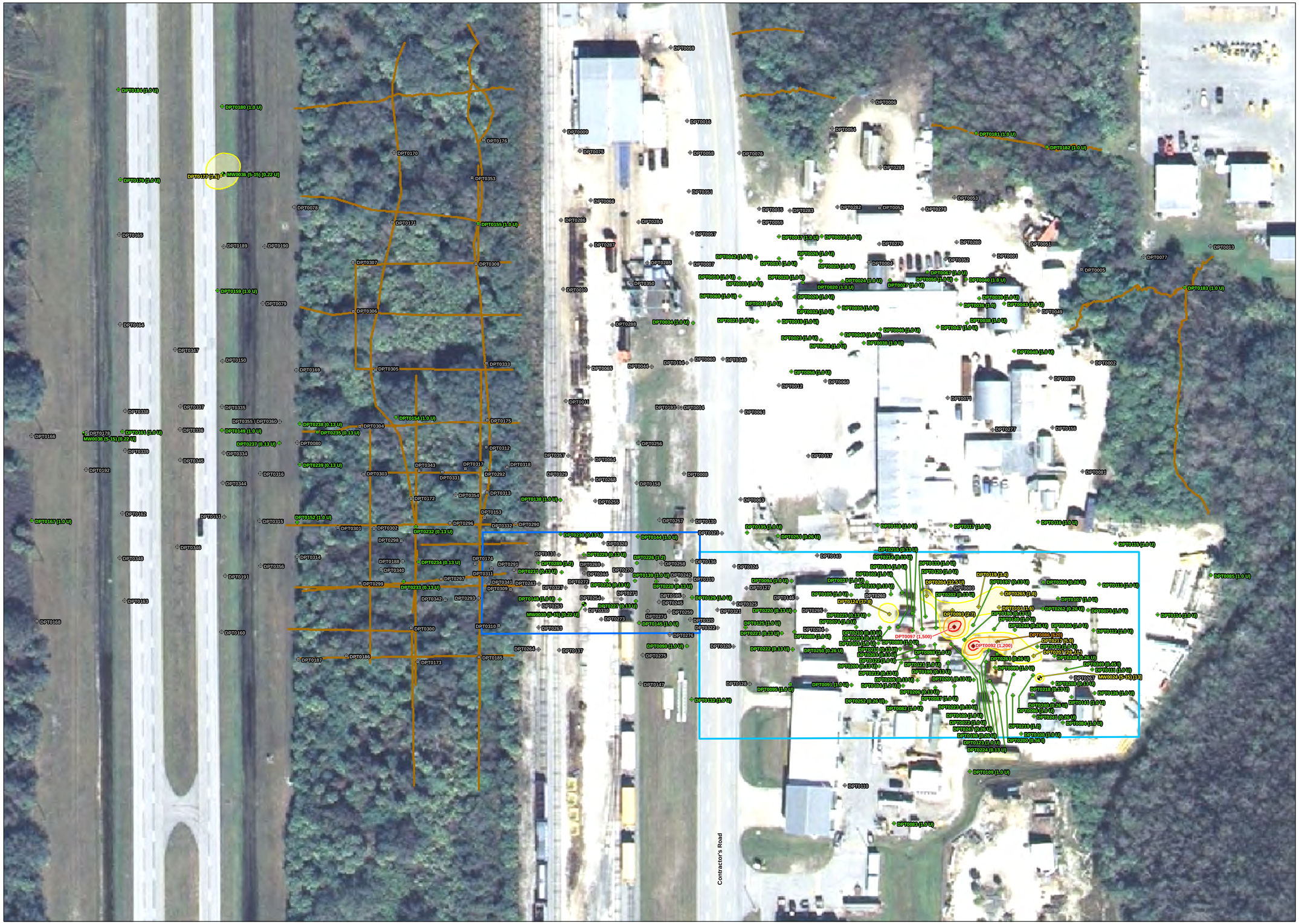
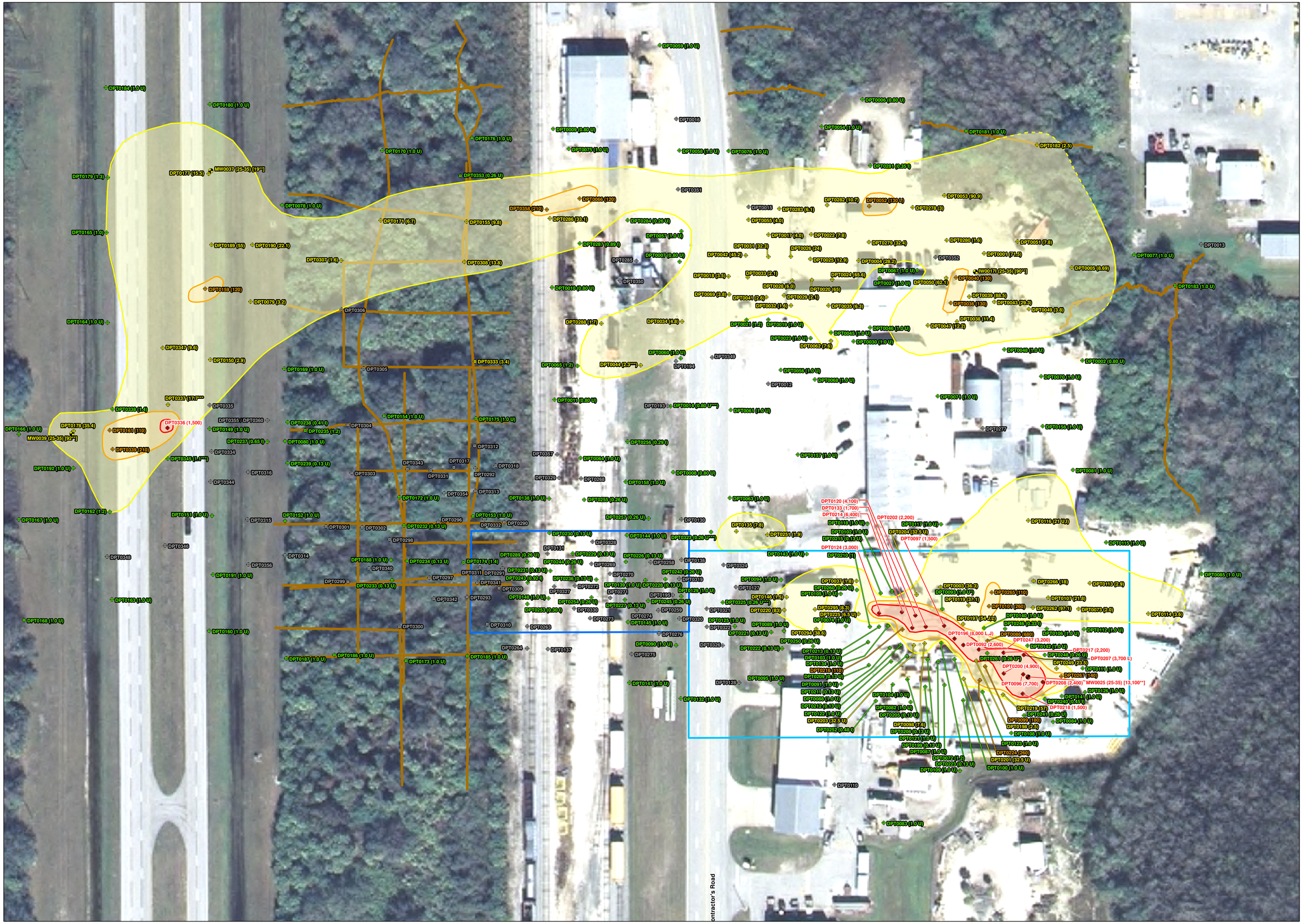


Figure 24
CRHE Area Summary of VC Results in Groundwater 8 to 16 ft BLS



N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (10X NADC)

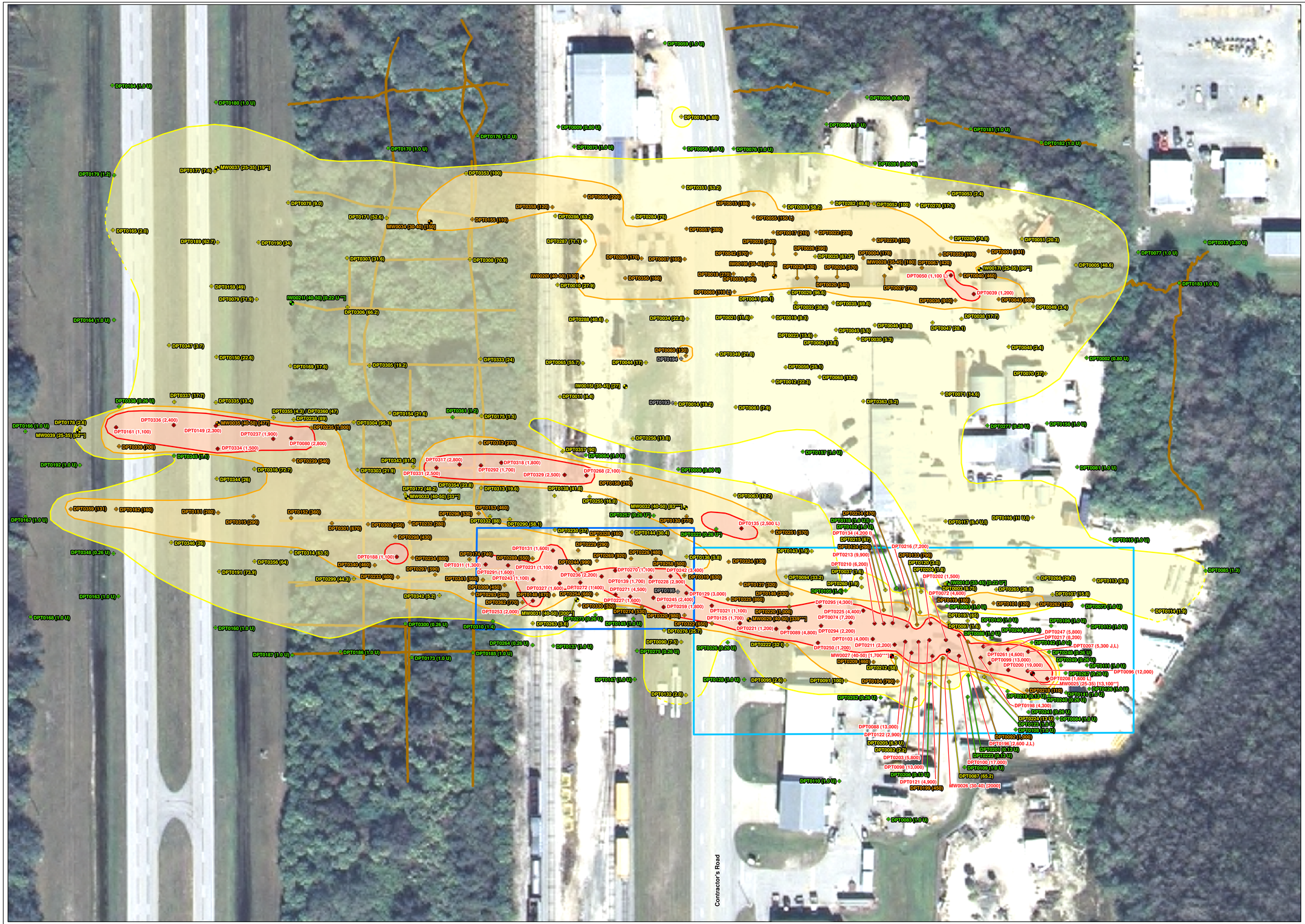
Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- Inferred 1 µg/L VC Isopleth
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- 1,000 µg/L VC Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (ug/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates value is estimated.
6. L indicates value exceeds calibration range.
7. U indicates value was not detected above the method detection limit.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. * indicates data not used to generate contours.
12. ** indicates well screens fall within more than one mapping interval.
13. ***indicates that data from the 31 - 35 or 36 - 40 ft bls interval is shown.

Path: (T:\pyelle-01\DATA\ TI\GIS\FY16\81_CRHE\MXDs\OCT2014\VC_16_bz30_fdss_OCT2014.mxd 22 April 2015 JPB

Figure 25
CRHE Area Summary of VC Results in Groundwater 16 to 30 ft BLS



Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. L indicates value exceeds calibration range.
7. U indicates value was not detected above the method detection limit.
8. * indicates data not used to generate contours.
9. ** indicates well screens fall within more than one mapping interval.
10. *** indicates result was not used for contouring as the well screen falls within more than one mapping interval.
11. GCTL indicates Groundwater Cleanup Target Level.
12. NADC indicates Natural Attenuation Default Concentration.
13. Prefix for all sampling locations is "CRHE-".
14. Only monitoring wells that were sampled in November 2009 are shown on this map.

Path: I:\Tauzile-01\Data\71\005\FR1681_CRHE\MXD\OCT2014\VC_31_to46_Wells_OCT2014.mxd 17 Apr 2015 MAH

Figure 26
CRHE Area Summary of VC Results in Groundwater 31 to 46 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- VC concentration greater than 1,000 µg/L (NADC)
- Inferred 1 µg/L VC Isopleth
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. I indicates reported value is between the method detection limit and the practical quantitation limit.
5. J indicates estimated value.
6. U indicates value was not detected above the method detection limit.
7. * indicates data not used to generate contours.
8. GCTL indicates Groundwater Cleanup Target Level.
9. NADC indicates Natural Attenuation Default Concentration.
10. Prefix for all sampling locations is "CRHE-".
11. Only monitoring wells that were sampled in November 2009 are shown on this map.

Path: I:\Tauvella-01\Data\T-DGB\SFR1681_CRHE\MXDs\OCT2014\VC_46_to_56_fbls_OCT2014.mxd 17 Apr 2015 JRB

Figure 27
CRHE Area Summary of VC Results in Groundwater 46 to 56 ft BLS

N

50 25 0 50 Feet

Legend

- DPT Location Not Sampled in this Interval

DPT Sampling Location showing (highest VC Concentration)

- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)

Monitoring Well Location showing (screen interval (ft BLS) and [VC Concentration])

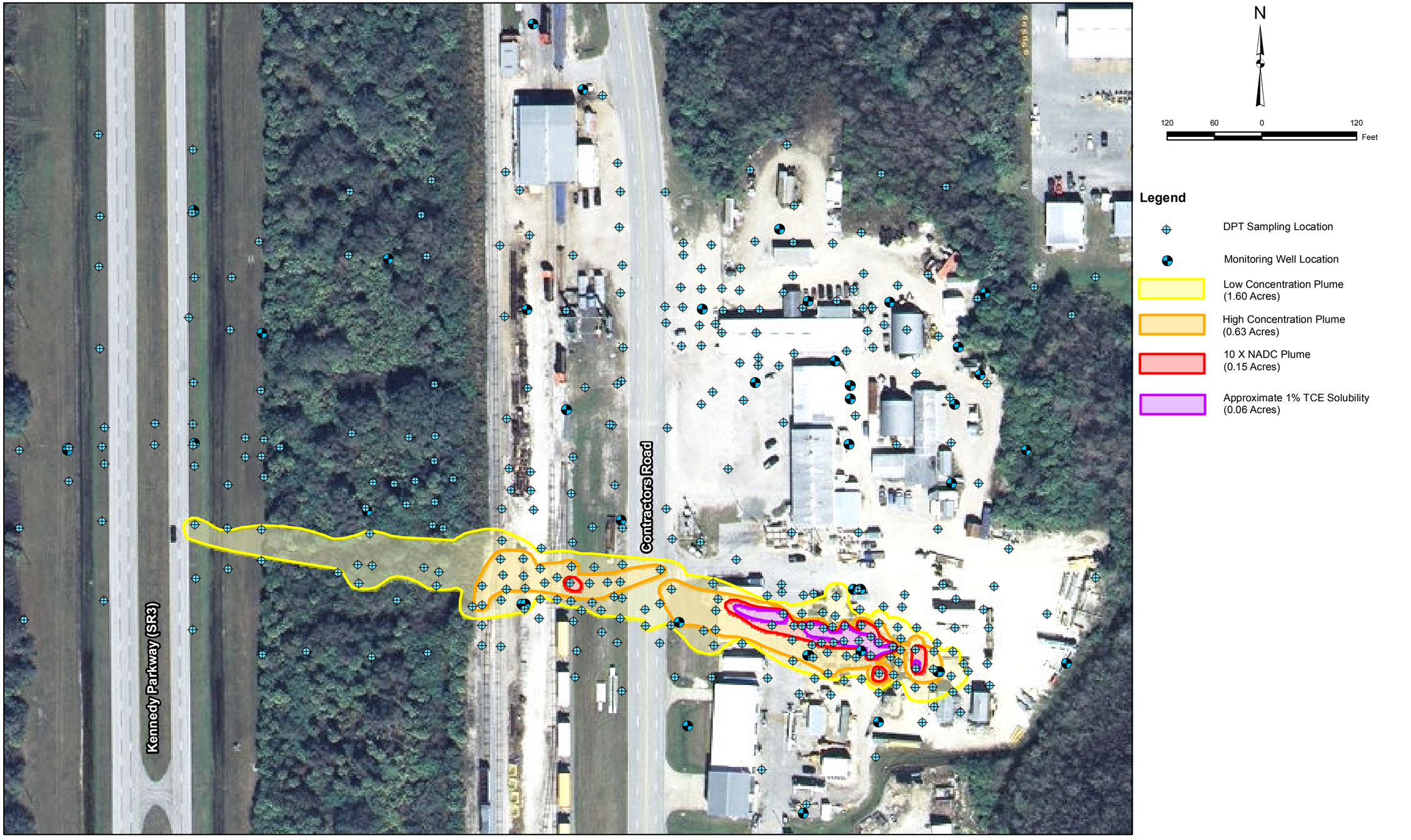
- VC concentration less than or equal to 1 µg/L
- VC concentration greater than 1 µg/L (GCTL)
- VC concentration greater than 100 µg/L (NADC)
- 1 µg/L VC Isopleth
- 100 µg/L VC Isopleth
- Hot Spot 1
- Hot Spot 2
- Cleared Trails

Notes:
1. ft BLS indicates feet below land surface.
2. Results are presented in micrograms per liter (µg/L).
3. VC indicates vinyl chloride.
4. J indicates estimated value.
5. U indicates value was not detected above the method detection limit.
6. * indicates data for DPT0193 was used for this location.
7. GCTL indicates Groundwater Cleanup Target Level.
8. NADC indicates Natural Attenuation Default Concentration.
9. Prefix for all sampling locations is "CRHE-".
10. Data presented is from the bottom depth interval for each location.

Contractor's Road

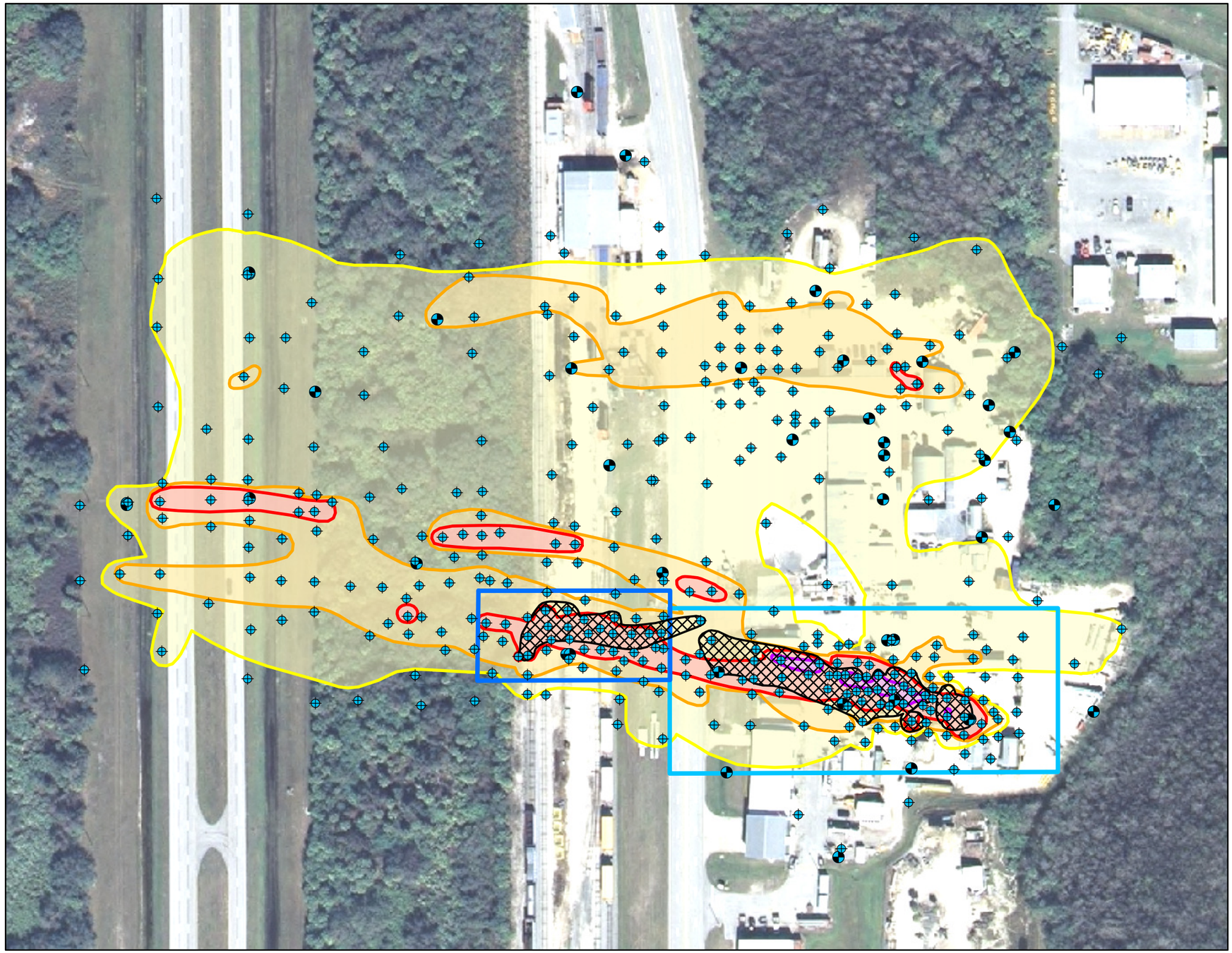
Path: I:\Tauvella-01\Data\TYGSS\FY1501_CRHE\MXDs\OCT2014\VC_greater_than_56_fttbls_OCT2014.mxd 17 Apr 2015 JRB

Figure 28
CRHE Area Summary of VC Results in Groundwater Greater than 56 ft BLS



Path: (Titusville-01\Data)T:\0GIS\FR1681_CRHE\MXDs\MAR2015\Composite_TCE_Plume_DEC2014_ADP.mxd 19 Mar 2015 JRB

Figure 29
Composite TCE Plume - November 2014



N

140 70 0 140

Feet

Legend

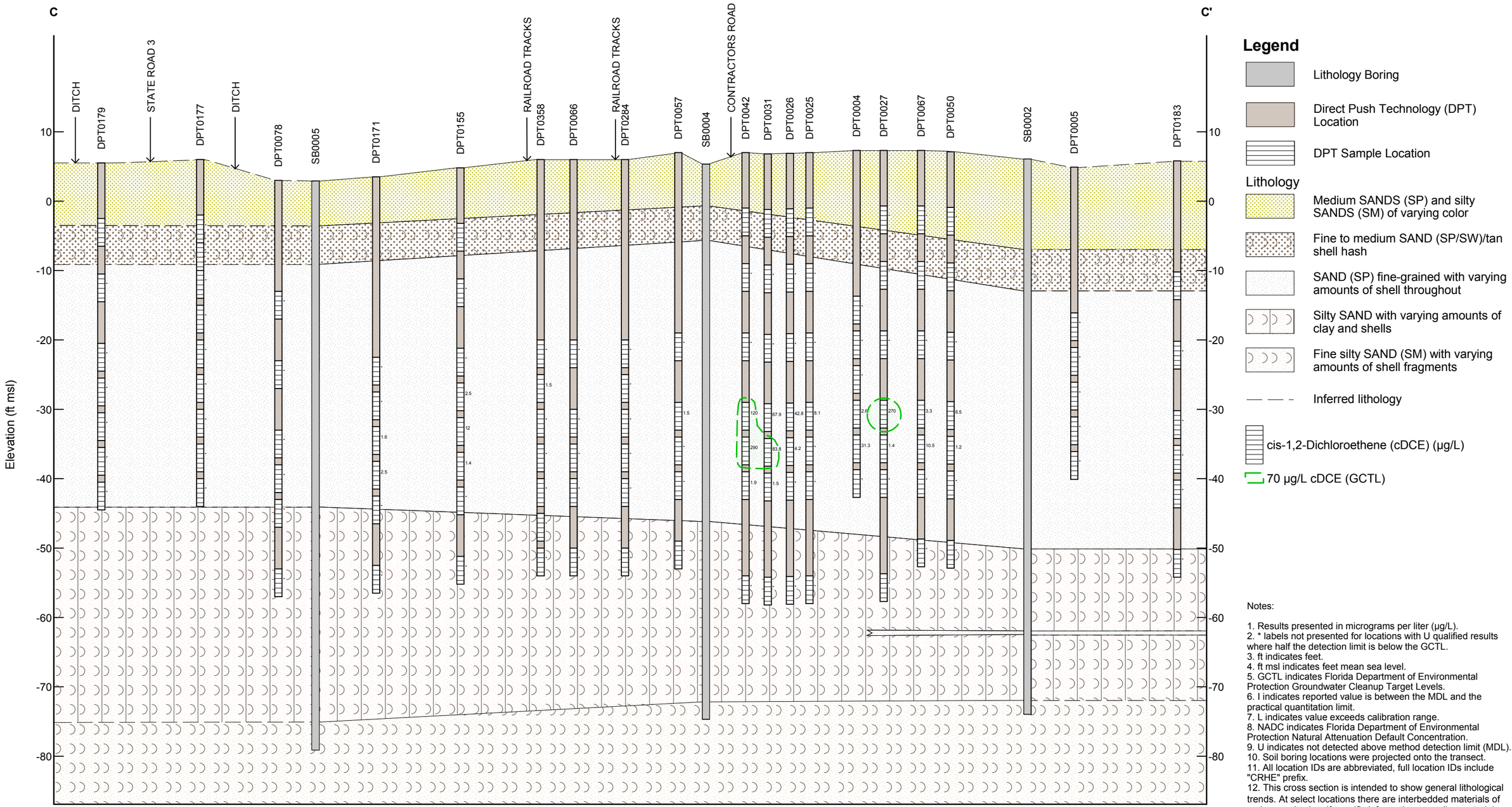
- DPT Location
- Monitoring Well Location
- Hot Spot 2
- Hot Spot 1
- Low Concentration Plume (Concentrations Greater than GCTL)
- High Concentration Plume (Concentrations Greater than NADC)
- TCE High Concentration Plume
- Hot Spot (Concentrations Greater than 10X NADC)
- Approximate 1% TCE Solubility

Site Plumes	Site Area (acres)
Low Concentration Plume (Concentrations Greater than GCTL)	14.90
High Concentration Plume (Concentrations Greater than NADC)	4.37
TCE High Concentration Plume	0.63
Hot Spot (Concentrations Greater than 10X NADC)	1.01
Approximate 1% TCE Solubility (TCE Concentrations Greater than 11,000 µg/L)	0.06

Notes:
1. GCTL indicates Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level.
2. NADC indicates FDEP Natural Attenuation Default Concentration.

Path: (Titusville-01\Data\)P:\0GIS\FR1681_CRHE\MXDs\JAN2015\Greater_GCTL_NADC_10XNADC_JAN2015.mxd 23 Mar 2015 MAH

Figure 30
Overall Extent of Groundwater Isopleths at CRHE



Legend

- Lithology Boring
- Direct Push Technology (DPT) Location
- DPT Sample Location

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with varying amounts of shell throughout
- Silty SAND with varying amounts of clay and shells
- Fine silty SAND (SM) with varying amounts of shell fragments
- Inferred lithology
- cis-1,2-Dichloroethene (cDCE) (µg/L)
- 70 µg/L cDCE (GCTL)

113 57 0 113 Feet

Horizontal 1" = 113'
Vertical exaggeration is 8

Notes:

1. Results presented in micrograms per liter (µg/L).
2. * labels not presented for locations with U qualified results where half the detection limit is below the GCTL.
3. ft indicates feet.
4. ft msl indicates feet mean sea level.
5. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
6. I indicates reported value is between the MDL and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
9. U indicates not detected above method detection limit (MDL).
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.
12. This cross section is intended to show general lithological trends. At select locations there are interbedded materials of various grain size. If specific information regarding material encountered at specific depths is needed, soil boiring logs should be reviewed.

FIGURE 31
CRHE Site
cis-1,2-Dichloroethene Concentrations (µg/L)
for C to C' Section

C

C'

DITCH
DPT0179
STATE ROAD 3
DPT0177
DITCH
DPT0078
SB0005
DPT0171
DPT0155
RAILROAD TRACKS
DPT0358
DPT0066
RAILROAD TRACKS
DPT0284
DPT0057
SB0004
CONTRACTORS ROAD
DPT0042
DPT0031
DPT0026
DPT0025
DPT0004
DPT0027
DPT0067
DPT0050
SB0002
DPT0005
DPT0183

Elevation (ft msl)

10
0
-10
-20
-30
-40
-50
-60
-70
-80

Legend

Lithology Boring

Direct Push Technology (DPT) Location

DPT Sample Location

Lithology

Medium SANDS (SP) and silty SANDS (SM) of varying color

Fine to medium SAND (SP/SW)/tan shell hash

SAND (SP) fine-grained with varying amounts of shell throughout

Silty SAND with varying amounts of clay and shells

Fine silty SAND (SM) with varying amounts of shell fragments

Inferred lithology

Vinyl Chloride (VC) (µg/L)

1 µg/L VC (GCTL)
100 µg/L VC (NADC)
1,000 µg/L VC (10x NADC)

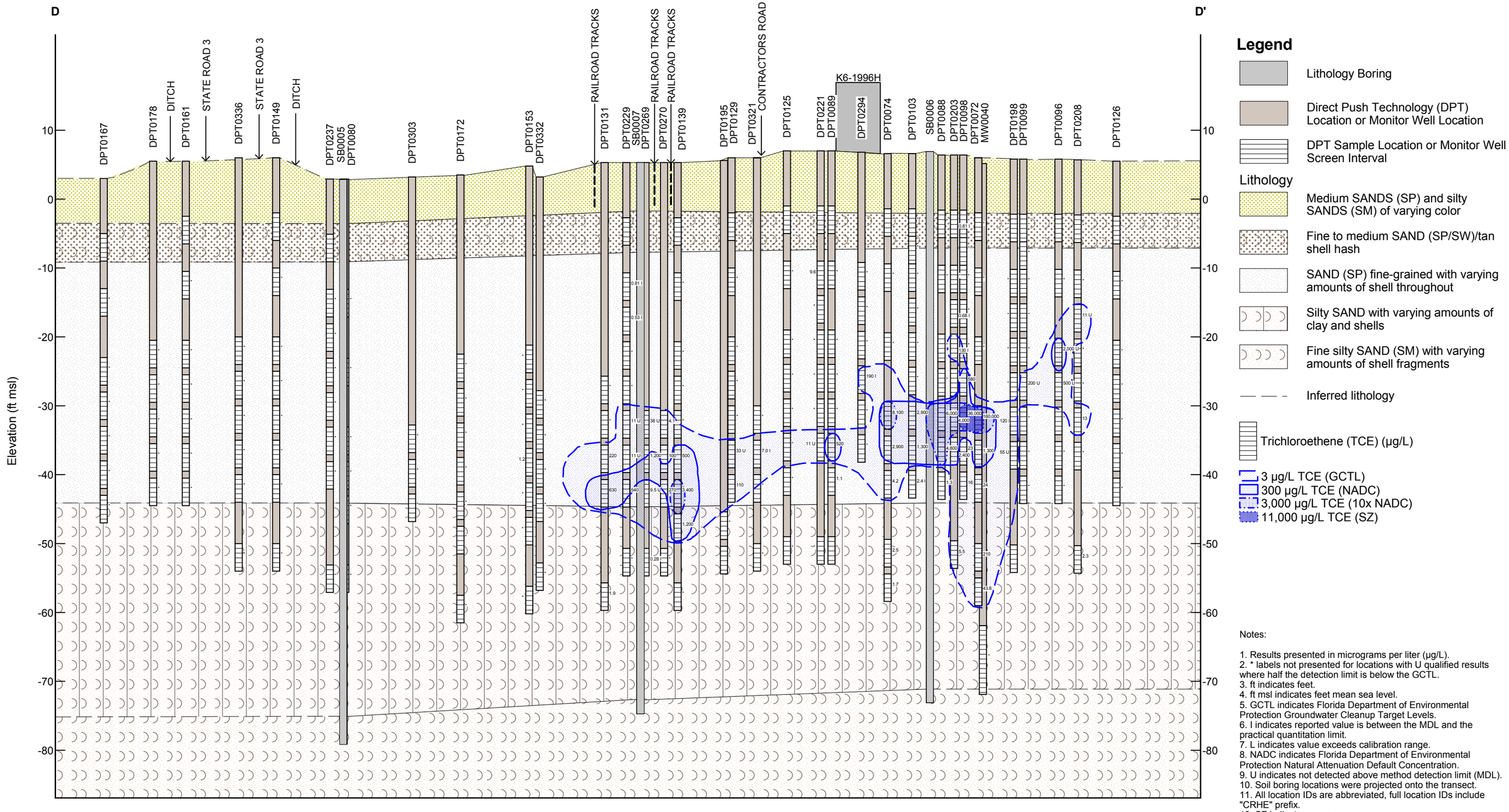
Notes:

1. Results presented in micrograms per liter (µg/L).
2. * labels not presented for locations with U qualified results where half the detection limit is below the GCTL.
3. ft indicates feet.
4. ft msl indicates feet mean sea level.
5. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
6. I indicates reported value is between the MDL and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
9. U indicates not detected above method detection limit (MDL).
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.

113 57 0 113
Feet

Horizontal 1" = 113'
Vertical exaggeration is 8

FIGURE 32
CRHE Site
Vinyl Chloride Concentrations (µg/L)
for C to C' Section



Legend

- Lithology Boring
- Direct Push Technology (DPT) Location or Monitor Well Location
- DPT Sample Location or Monitor Well Screen Interval

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with varying amounts of shell throughout
- Silty SAND with varying amounts of clay and shells
- Fine silty SAND (SM) with varying amounts of shell fragments
- Inferred lithology

- Trichloroethene (TCE) (µg/L)
- 3 µg/L TCE (GCTL)
- 300 µg/L TCE (NADC)
- 3,000 µg/L TCE (10x NADC)
- 11,000 µg/L TCE (SZ)

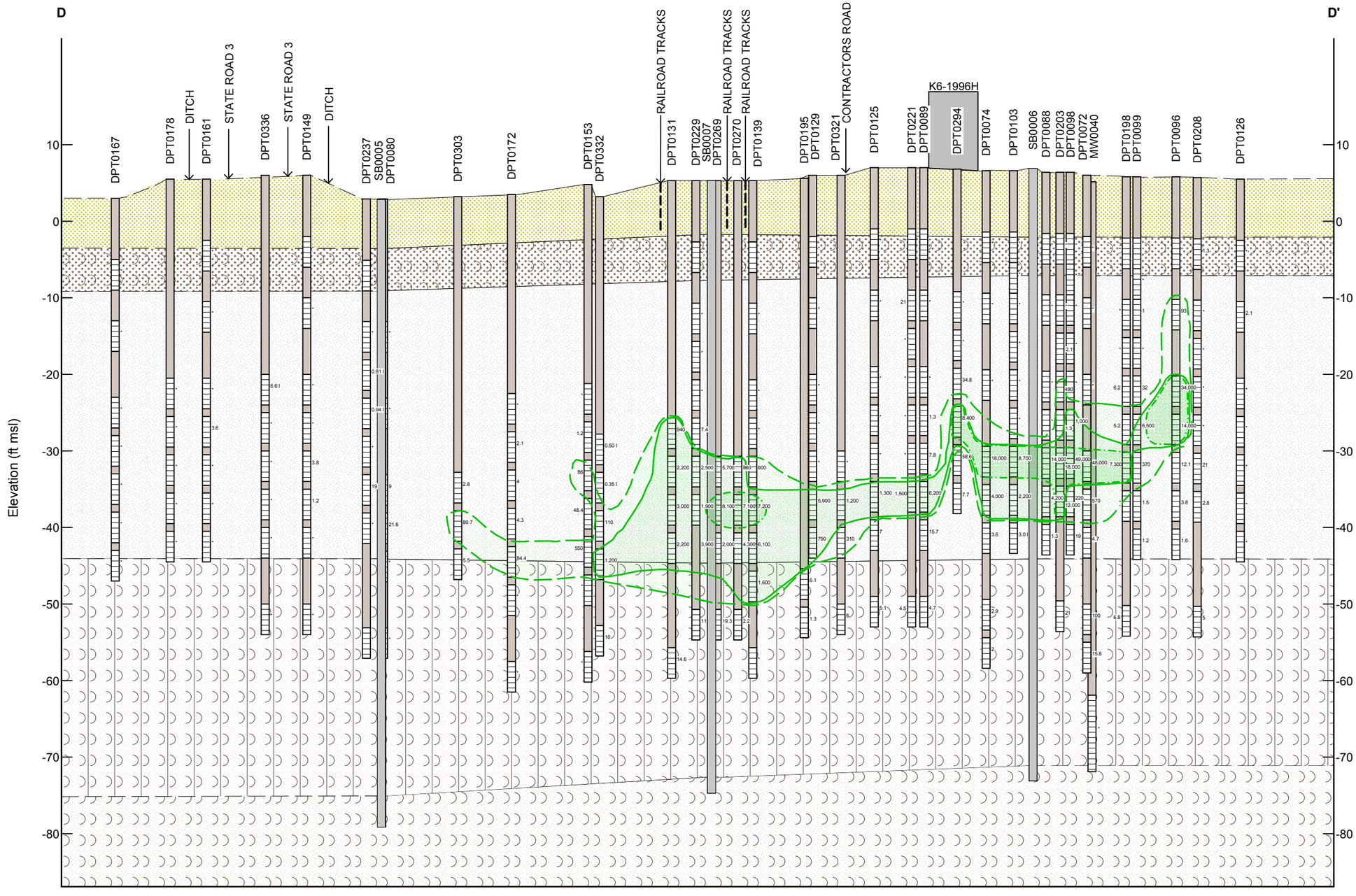
122 61 0 122 Feet

Horizontal 1" = 122'
Vertical exaggeration is 9

Notes:

1. Results presented in micrograms per liter (µg/L).
2. * labels not presented for locations with U qualified results where half the detection limit is below the GCTL.
3. ft indicates feet.
4. ft msl indicates feet mean sea level.
5. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
6. I indicates reported value is between the MDL and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
9. U indicates not detected above method detection limit (MDL).
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.
12. SZ indicates source zone.

FIGURE 33
CRHE Site
Trichloroethene Concentrations (µg/L)
for D to D' Section



Legend

- Lithology Boring
- Direct Push Technology (DPT) Location or Monitor Well Location
- DPT Sample Location or Monitor Well Screen Interval

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with varying amounts of shell throughout
- Silty SAND with varying amounts of clay and shells
- Fine silty SAND (SM) with varying amounts of shell fragments
- Inferred lithology

- cis-1,2-dichloroethene (cDCE) (µg/L)

- 70 µg/L cDCE (GCTL)
- 700 µg/L cDCE (NADC)
- 7,000 µg/L cDCE (10x NADC)

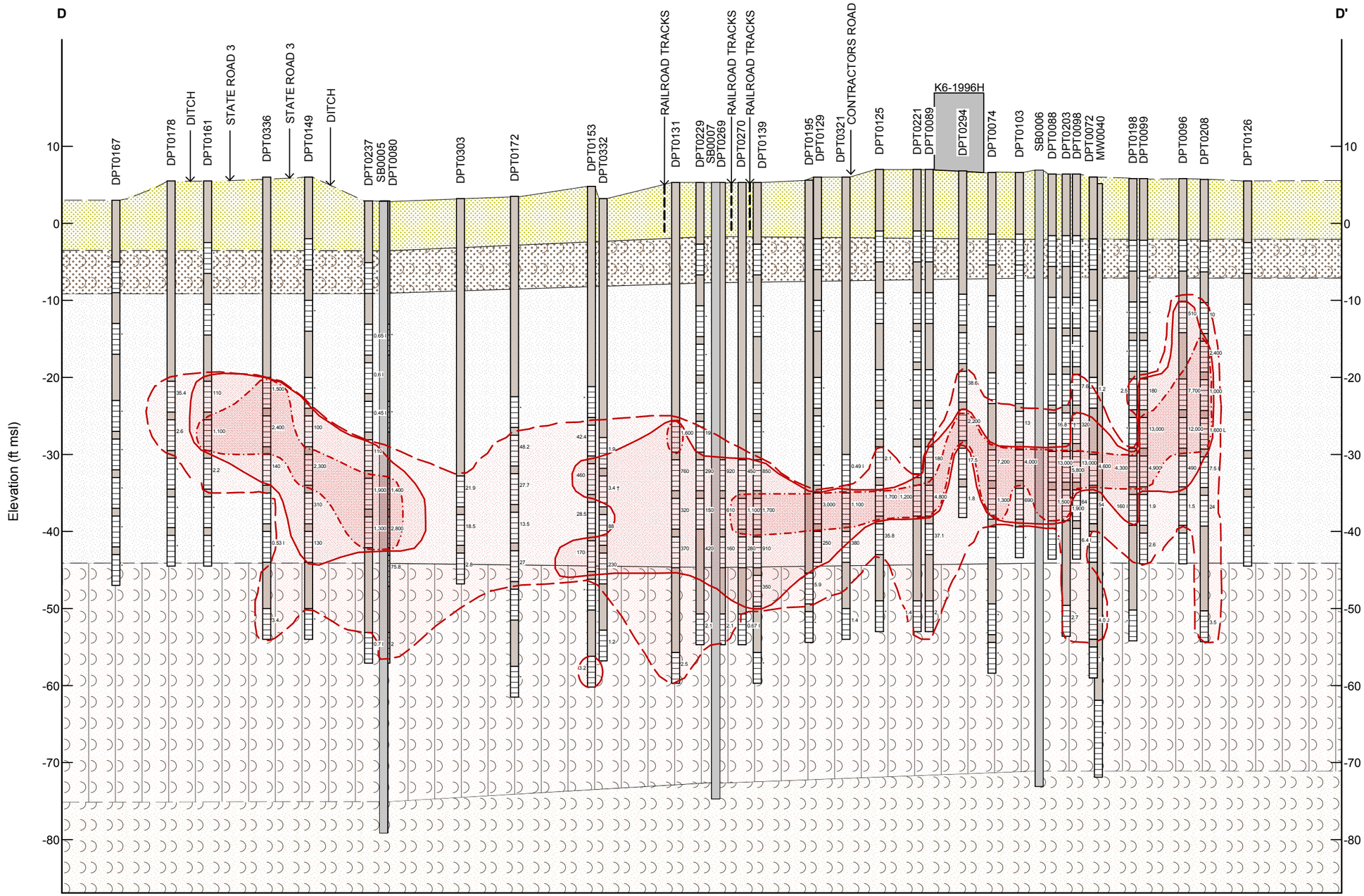
Notes:

1. Results presented in micrograms per liter (µg/L).
2. * labels not presented for locations with U qualified results where half the detection limit is below the GCTL.
3. ft indicates feet.
4. ft msl indicates feet mean sea level.
5. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
6. I indicates reported value is between the MDL and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
9. U indicates not detected above method detection limit (MDL).
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.

122 61 0 122
Feet

Horizontal 1" = 122'
Vertical exaggeration is 9

FIGURE 34
CRHE Site
cis-1,2-Dichloroethene Concentrations (µg/L)
for D to D' Section



Legend

- Lithology Boring
- Direct Push Technology (DPT) Location or Monitor Well Location
- DPT Sample Location or Monitor Well Screen Interval

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with varying amounts of shell throughout
- Silty SAND with varying amounts of clay and shells
- Fine silty SAND (SM) with varying amounts of shell fragments
- Inferred lithology

- Vinyl Chloride (VC) (µg/L)
- 1 µg/L VC (GCTL)
- 100 µg/L VC (NADC)
- 1,000 µg/L VC (10x NADC)

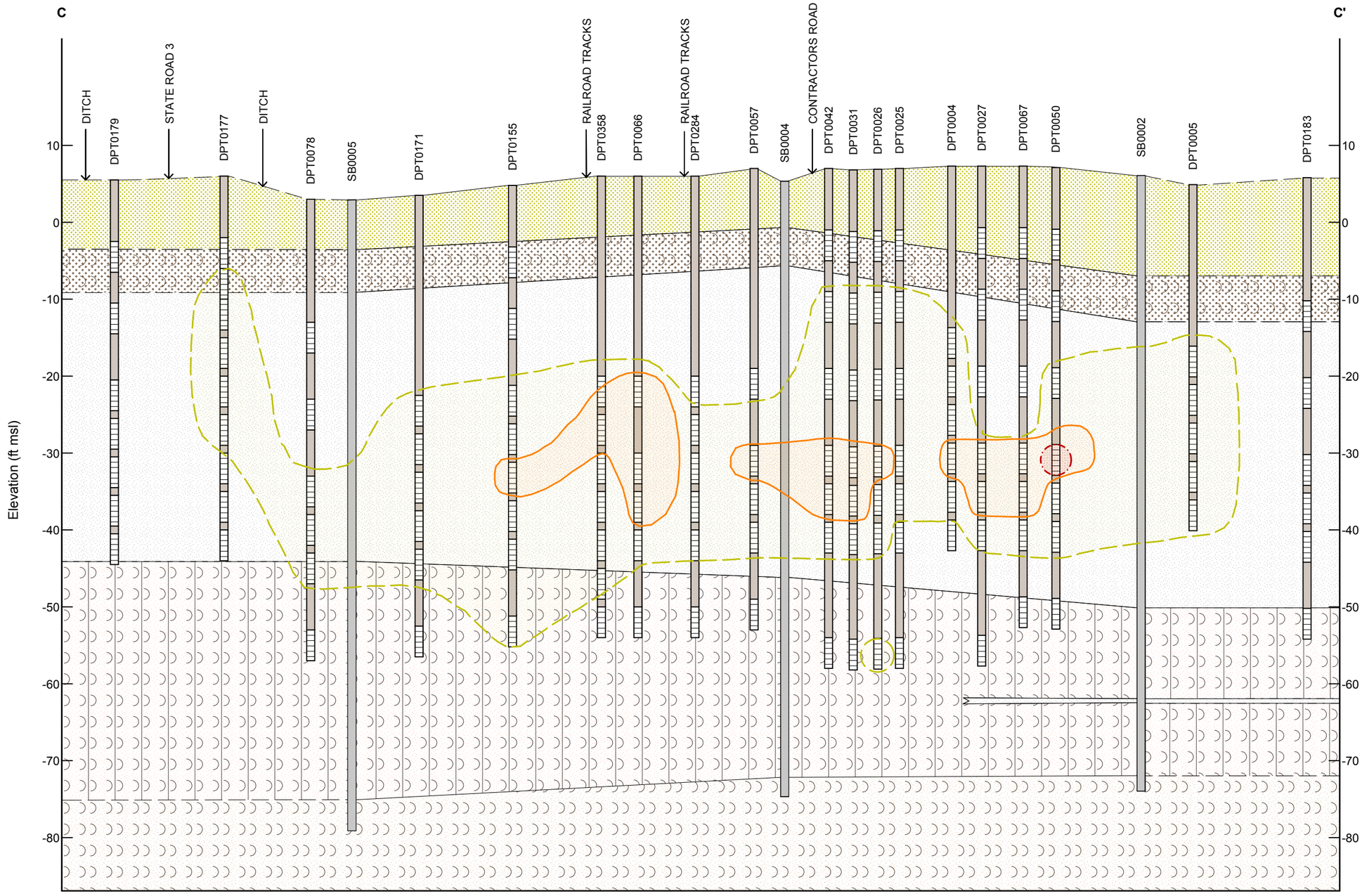
Notes:

1. Results presented in micrograms per liter (µg/L).
2. * labels not presented for locations with U qualified results where half the detection limit is below the GCTL.
3. ft indicates feet.
4. ft msl indicates feet mean sea level.
5. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
6. I indicates reported value is between the MDL and the practical quantitation limit.
7. L indicates value exceeds calibration range.
8. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
9. U indicates not detected above method detection limit (MDL).
10. Soil boring locations were projected onto the transect.
11. All location IDs are abbreviated, full location IDs include "CRHE" prefix.
12. † value not used for contouring.

122 61 0 122 Feet

Horizontal 1" = 122'
Vertical exaggeration is 9

FIGURE 35
CRHE Site
Vinyl Chloride Concentrations (µg/L)
for D to D' Section



Legend

- Lithology Boring
- Direct Push Technology (DPT) Location
- DPT Sample Location

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with varying amounts of shell throughout
- Silty SAND with varying amounts of clay and shells
- Fine silty SAND (SM) with varying amounts of shell fragments
- Inferred lithology
- Combined CVOC LCP
- Combined CVOC HCP
- Combined CVOC 10x NADC

Notes:

1. ft indicates feet.
2. ft msl indicates feet mean sea level.
3. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
4. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
5. Soil boring locations were projected onto the transect.
6. All location IDs are abbreviated, full location IDs include "CRHE" prefix.
7. CVOC indicates chlorinated volatile organic compounds.
8. LCP indicates low concentration plume.
9. HCP indicates high concentration plume.

113 57 0 113 Feet

Horizontal 1" = 113'
Vertical exaggeration is 8

FIGURE 36
CRHE Site
Chlorinated Volatile Organic Compound Concentrations (µg/L) for C to C' Section

D

D'

Elevation (ft msl)

10
0
-10
-20
-30
-40
-50
-60
-70
-80

DPT0167
DPT0178
DITCH
DPT0161
STATE ROAD 3
DPT0336
STATE ROAD 3
DPT0149
DITCH
DPT0237
SB0005
DPT0080
DPT0303
DPT0172
DPT0153
DPT0332
RAILROAD TRACKS
DPT0131
DPT0229
SB0007
DPT0269
RAILROAD TRACKS
DPT0270
RAILROAD TRACKS
DPT0139
DPT0195
DPT0129
DPT0321
CONTRACTORS ROAD
DPT0125
DPT0221
DPT0089
K6-1996H
DPT0294
DPT0074
DPT0103
SB0006
DPT0088
DPT0203
DPT0098
DPT0072
MW0040
DPT0198
DPT0099
DPT0096
DPT0208
DPT0126

Legend

- Lithology Boring
- Direct Push Technology (DPT) Location or Monitor Well Location
- DPT Sample Location or Monitor Well Screen Interval

Lithology

- Medium SANDS (SP) and silty SANDS (SM) of varying color
- Fine to medium SAND (SP/SW)/tan shell hash
- SAND (SP) fine-grained with varying amounts of shell throughout
- Silty SAND with varying amounts of clay and shells
- Fine silty SAND (SM) with varying amounts of shell fragments
- Inferred lithology

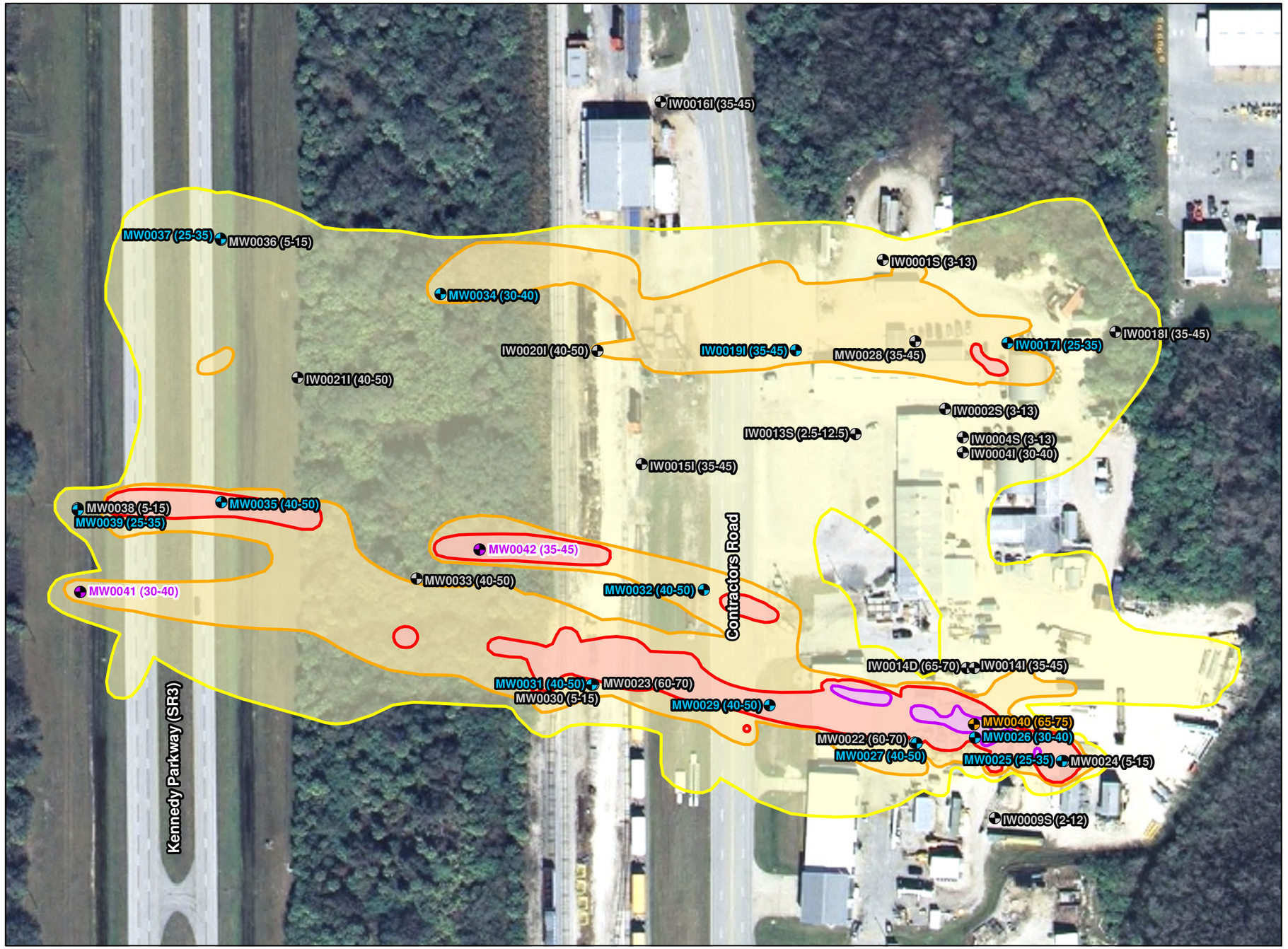
- Combined CVOC LCP
- Combined CVOC HCP
- Combined CVOC 10x NADC

122 61 0 122
Feet
Horizontal 1" = 122'
Vertical exaggeration is 9

Notes:

1. ft indicates feet.
2. ft msl indicates feet mean sea level.
3. GCTL indicates Florida Department of Environmental Protection Groundwater Cleanup Target Levels.
4. NADC indicates Florida Department of Environmental Protection Natural Attenuation Default Concentration.
5. Soil boring locations were projected onto the transect.
6. All location IDs are abbreviated, full location IDs include "CRHE" prefix.
7. CVOC indicates chlorinated volatile organic compounds.
8. LCP indicates low concentration plume.
9. HCP indicates high concentration plume.

FIGURE 37
CRHE Site
Chlorinated Volatile Organic Compound Concentrations (µg/L) for D to D' Section



N

120 60 0 120

Feet

Legend

- Proposed Monitoring Well Location (Screen Interval)
- Intermediate Monitoring Well Location (Screen Interval)
- Deep Monitoring Well Location (Screen Interval)
- Monitoring Well - Not Part of Interim Groundwater Sampling Plan (Screen Interval)
- Low Concentration Plume
- High Concentration Plume
- Hot Spot
- 1% TCE Solubility Plume

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).

Path: {Titusville-01\Data\}P:\0GIS\FR1681_CRHE\MXDs\MAR2015\Proposed_MW_MARCH2015.mxd 25 March 2015 MAH

Figure 38
Proposed Monitoring Well Sampling Locations

Geosyntec consultants

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Pensacola, Florida 32502
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FAX 850.477.6707
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MEMORANDUM

Date:	22 April 2015
To:	Anne Chrest
Copies to:	NASA Remediation Team
From:	Lane Dorman, P.G. and Jim Langenbach, P.E.
Subject:	Contractor's Road Heavy Equipment Area (CRHE) (SWMU055) Step 1A/1B Engineering Evaluations – Response to Comments

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Comments on the CRHE Step 1A/1B Engineering Evaluations have been reviewed and responses, where applicable, are provided below. The comment is provided and Geosyntec's response, in italics, is below the comment.

Tetra Tech Comments:

Step 1A:
Technical Comments

1. Slide 12
   Suggest showing the site conditions for the HS2 area, as photos show conditions of HS1.

   Response: Comment noted; pictures of HS2 included.

2. Slide 14
   Is the lithologic unit present from approximately 48 to 78 feet bls a continuous silty sand with clay unit? Suggest showing any details that may relate to confining/semi-confining conditions, as a relatively thin unit with higher clay content is typically present where the top of this layer is depicted (global to cross sections).

   Response: Comment noted; see revised cross section notes.

3. Slide 38
   [a] Should the LCP plume be shown as inferred south of DPT0044,
   [b] west of DPT0146/0220,
   [c] east of DPT0135? Samples were not collected from this interval at those locations.
   [d] Additionally, the DPT spacing around DPT0336 does not appear to meet KSC spacing conventions.

[e] For consistency, the LCP should be extended to include DPT0179 (e.g., DPT0162 was included).

Response:
[a] Geosyntec does not agree that the LCP should be shown as inferred S of DPT0044. The distance between DPT0060 and DPT0065, which both had VC concentrations below 2.0 µg/L in this mapping interval, is approximately 120 ft. Based on the VC concentrations at DPT0060 and DPT0065 and at the following locations, the LCP is delineated in this area:

- *31-35 ft BLS interval from DPT0044 (2.3 µg/L),*
- *31-35 ft BLS interval from DPT0014 (0.80 U µg/L), and*
- *26-30 ft BLS interval from DPT0011 (0.80 U µg/L).*

The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 31-35 ft BLS intervals of DPT0044 and DPT0014 for lateral delineation interpretation.

[b] Geosyntec does not agree that the LCP should be shown as inferred W of DPT0146/220 based on the VC concentration in the 36-40 ft BLS interval from DPT0325 (0.26 U µg/L).

[c] Geosyntec does not agree that the LCP should be shown as inferred W of DPT0135 based on the VC concentration in the 36-40 ft BLS interval from DPT0323 (0.26 U µg/L). The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 36-40 ft BLS intervals of DPT0323 for lateral delineation interpretation.

[d] Comment noted; although DPT spacing around DPT0336 shown on the 16-30 ft BLS interval map does not meet the specific spacing suggestion in the Step process, VC detections at DPT0337 (17.7 µg/L) and DPT0345 (1.1 µg/L) from the 31-35 ft BLS interval (i.e. the interval immediately below the 1,500 µg/L VC detection in DPT0336) indicate that the current contour interpretation is valid. The VC 16-30 ft BLS plume map has been revised to show VC concentrations from the 31-35 ft BLS intervals of DPT0337 and DPT0345 for lateral delineation interpretation. If an interim measure is necessary in this area, additional sampling may be completed at that time.

[e] Comment noted; the VC 16-30 ft BLS plume map was adjusted slightly to include DPT0179 and DPT0165 in the 1.0 µg/L contour; however, this does not represent a material impact to the LCP.

4. Slide 39
[a] Suggest showing LCP as inferred in the northeast most portion of the LCP northeast of DPT005, as there are not points bounding the plume in this direction between DPT0182 and DPT0077.
[b] Please also identify the area south of MW0034 as a data gap, as the HCP is not delineated to the south of this location.

Response:
[a] Geosyntec's contour interpretation of the peripheral DPT locations in this area is based on observed VC concentrations less than 1.0 µg/L in DPT0181, DPT0182, DPT0077, and DPT0013.

[b] Comment noted. Geosyntec agrees that there is not a DPT location that meets the specific spacing suggestion in the Step process south of MW0034. However, given the VC concentrations detected in DPT0307 (31.6 µg/L) and DPT0308 (70.9 µg/L), we are comfortable with the delineation as presented. Sampling in this area has not occurred to date due to wetland conditions. If accessible, additional sampling may be conducted at a later date, if needed.

5. Slide 40
[a] The HCP is not bound in the northern direction of DPT0301 and DPT0302 to the north and northwest. Suggest more conservative contouring in this area as well as identification of data gap.

[b] We also suggest south of DPT0350 and IW0020I be identified as an HCP data gap, as data is not available in this direction near the referenced locations.

Response:
[a] Geosyntec agrees that there is a data gap at this location when comparing to the specific spacing suggestions in the Step process; however, this data gap can be filled at a later date, if needed. The VC 46-56 ft BLS plume map has been updated with more conservative contouring.

[b] Geosyntec agrees that there is not a DPT location that meets the specific spacing suggestion in the Step process in this area of the 46-56 ft BLS mapping interval; however, based on the VC detections in the 41-45 ft BLS interval at DPT0288 (40.6 µg/L) and 46-50 ft BLS interval at DPT0010 (48.4 µg/L), we are comfortable with the delineation as presented.

6. Slide 40
Agree with inferred plume boundary along southwestern tail near DPT0163. Suggest plume boundaries be shown as inferred boundaries near DPT0264 and around DPT0016 (northern isolated detection)?

Response: Comment noted; plume boundary near DPT0264 and around DPT0016 shown as inferred.

7. Slide 40
   The LCP south of the Hot Spot 1 area appears to not be delineated, as the plume south of DPT0091 and DPT0095 is not bound to the south by single-digit detections.

   Response: DPT0110 meets the spacing requirements of S of DPT0091 and our request to collect a sample S of DPT0095 was denied due to utilities. Based on the results at DPT0110 and our understanding of the conceptual site model, we are comfortable with the delineation presented.

8. Slide 53
   Please list mass information by COC for each plume interval (e.g., X lbs of VC in LCP, Y lbs of VC in HCP, and Z lbs of VC in HS, etc.).

   Response: The mass evaluation was prepared consistent with the Step 1 requirements; however, COC mass by plume intervals are provided for review.

Jacobs

We reviewed the CRHE Step 1 EE data package. It meets all of the Step 1 EE objectives; the data collected delineates HS2/HCP/LCP adequately and the technology evaluation is complete. Please consider the comments below.

1) Figure 10
   For locations that have 2 sample dates (i.e., DPT0105), which dataset is included in the tag box?

   Response: Each sample date is included in the tag box. Multiple sampling dates at the same locations were employed to collect samples from intervals that had not been sampled.

2) Slide 31 (Figure 18)
   a) According to Figure 13, the TCE result of 3.6 µg/L at DPT0227 is from the 46-50 ft bls interval, not "greater than 56 ft bls". No data is shown for DPT0227 past the 46-50 ft bls interval on Figure 13, so it appears that it should be "gray" on Figure 18.

      Response: Comment noted; Figure 13 has been updated.

   b) It is understood that "note #8" on this figure explains that the data shown is from the bottom depth interval for each location. However, consider showing the highest result from the intervals sampled below 56 ft bls. In this case, for a location like DPT0244, which had two depths sampled below 56 ft bls (56-60 ft bls and 66-70 ft bls), the TCE data from the 56-60 ft bls interval would be shown (11 µg/L) and would be part of the 3

µg/L isopleth. Currently, the figure shows the TCE data (0.74 µg/L) for the lowest interval (66-70 ft bls) and is, therefore, not part of the 3 µg/L isopleth.

Response: Comment noted; the objective of this figure is to show vertical delineation. If the highest detection in this mapping interval is shown, it may give the impression that delineation has not been achieved.

3) Slide 36 (Figure 23)
It is understood that "note #8" on this figure explains that the data shown is from the bottom depth interval for each location. However, consider showing the highest result from the intervals sampled below 56 ft bls. In this case, for a location like DPT0244, which had two depths sampled below 56 ft bls (56-60 ft bls and 66-70 ft bls), the cDCE data from the 56-60 ft bls interval would be shown (110 µg/L) and would be part of the 70 µg/L isopleth. Currently, the figure shows the cDCE data (7.4 µg/L) for the lowest interval (66-70 ft bls) and is, therefore, not part of the 70 µg/L isopleth.

Response: See response 2b.

4) Slide 41 (Figure 28)
It is understood that "note #10" on this figure explains that the data shown is from the bottom depth interval for each location. However, consider showing the highest result from the intervals sampled below 56 ft bls. In this case, for a location like DPT0244, which had two depths sampled below 56 ft bls (56-60 ft bls and 66-70 ft bls), the VC data from the 56-60 ft bls interval would be shown (10 µg/L) and would be part of the 1 µg/L isopleth. Currently, the figure shows the VC data 0.58 µg/L) for the lowest interval (66-70 ft bls) and is, therefore, not part of the 1 µg/L isopleth.

Response: See response 2b.

APPENDIX G

SUMMARY OF DIRECT-PUSH TECHNOLOGY SAMPLING RESULTS

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0001	16 to 20	05/09/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	21 to 25		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**11.9**
	26 to 30		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**71.5**
	31 to 35		0.50 U	0.70 U	1.3	0.50 U	0.70 U	**141**
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**37.4**
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**3.2**
	46 to 50		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0002	16 to 20	05/09/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	21 to 25		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	26 to 30		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	46 to 50		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0003	16 to 20	05/10/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**12.1**
	21 to 25		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**36.3**
	26 to 30		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**24.3**
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**6.8**
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45	05/09/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0004	21 to 25	05/09/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**5.0**
	26 to 30		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**28.2**
	31 to 35	05/10/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**35.8**
	36 to 40		0.50 U	0.70 U	2.6	0.50 U	0.70 U	**178**
	41 to 45		0.50 U	0.70 U	31.3	3.7	0.70 U	**78.1**
	46 to 50	07/26/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0005	21 to 25	05/10/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**2.3**
	26 to 30		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**8.7**
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**48.6**
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**44.8**
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**3.2**
DPT0006	26 to 30	05/11/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0007	26 to 30	05/11/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**40.5**
	36 to 40		0.50 U	0.70 U	5.5	0.50 U	0.70 U	**165**
	41 to 45		0.50 U	0.70 U	9.6	0.50 U	0.70 U	**150**
	46 to 50	07/25/2006	0.50 U	0.70 U	3.7	0.50 U	0.70 U	**272**
	51 to 55		0.50 U	0.70 U	1.7	0.50 U	0.70 U	**29.9**
	56 to 60	07/26/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	61 to 65		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0008	26 to 30	05/11/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0009	26 to 30	07/24/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	46 to 50		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0010	26 to 30	07/24/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	7.9	0.50 U	0.70 U	**11.1**
	41 to 45		0.50 U	0.70 U	42.0	0.50 U	0.70 U	**27.9**
	46 to 50		0.50 U	0.70 U	9.8	0.50 U	0.70 U	**48.4**
	51 to 55	10/04/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0011	26 to 30	07/24/2006	0.50 U	0.70 U	0.92 J	0.50 U	0.70 U	0.80 U
	31 to 35		0.50 U	0.70 U	3.3	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	18.6	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	18.5	0.50 U	0.70 U	**4.4**
	46 to 50		0.50 U	0.70 U	31.4	0.50 U	0.70 U	**13.6**
	51 to 55	07/25/2006	0.50 U	0.70 U	9.5	0.50 U	0.70 U	**38.6**
	61 to 65		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0012	31 to 35	07/25/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	39.2	0.50 U	0.70 U	**16.1**
	41 to 45		0.50 U	0.70 U	34.0	1.0	0.70 U	**22.3**
	46 to 50		0.50 U	0.70 U	0.71 J	0.50 U	0.70 U	**15.0**
	51 to 55		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0013	31 to 35	07/25/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	46 to 50		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	51 to 55		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0014	31 to 35	07/26/2006	0.50 U	0.70 U	8.2	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	**80.4**	0.50 U	0.70 U	**18.1**
	41 to 45		0.50 U	0.70 U	40.4	0.50 U	0.70 U	**19.2**
	46 to 50		0.50 U	0.70 U	20.3	0.50 U	0.70 U	**13.6**
	51 to 55		0.50 U	0.70 U	3.2	0.50 U	0.70 U	**17.7**
	61 to 65		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**7.1**
DPT0015	31 to 35	07/26/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**8.8**
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**172**
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**186**
	46 to 50		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	51 to 55		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
DPT0016	31 to 35	07/26/2006	0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	36 to 40		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	0.80 U
	41 to 45		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**6.7**
	46 to 50		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**4.3**
	51 to 55		0.50 U	0.70 U	0.70 U	0.50 U	0.70 U	**11.2**
DPT0017	8 to 12	06/22/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.7**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.0**
	36 to 40		1.0 U	1.0 U	1.6	1.1	1.0 U	**210**
	41 to 45		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**42.0**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11.8**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0018	8 to 12	06/22/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.5**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		5.0 U	5.0 U	6.1	5.0 U	5.0 U	**78.0**
	41 to 45		5.0 U	5.0 U	**300**	4.2 I	5.0 U	**270**
	46 to 50		1.0 U	1.0 U	**120**	4.0	1.0 U	**270**
	61 to 65		1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
DPT0019	8 to 12	06/22/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	16.1	2.0	1.0 U	**8.3**
	41 to 45		5.0 U	5.0 U	22.0	5.0 U	5.0 U	**7.6**
	46 to 50		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**5.0 U**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0020	8 to 12	06/23/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		**10 U**	**10 U**	10 U	10 U	10 U	**65.0**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**57.4**
	36 to 40		5.0 U	5.0 U	**800**	13.0	5.0 U	**540**
	41 to 45		5.0 U	5.0 U	**380**	21.0	5.0 U	**470**
	46 to 50		1.0 U	1.0 U	3.6	1.0 U	1.0 U	**3.3**
	61 to 65		1.0 U	1.0 U	**140**	3.4	1.0 U	**120**
	71 to 75	06/24/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0021	8 to 12	06/23/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.2
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	33.5	2.9	1.0 U	**11.7**
	41 to 45		1.0 U	1.0 U	47.9	3.6	1.0 U	**11.8**
	46 to 50		1.0 U	1.0 U	1.6	1.0 U	1.0 U	**3.2**
	61 to 65		1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
DPT0022	8 to 12	06/23/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.8**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.8**
	36 to 40		1.0 U	1.0 U	2.3	1.4	1.0 U	**230**
	41 to 45	06/24/2009	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**16.0**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.8**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.6**
	71 to 75		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
DPT0023	8 to 12	06/24/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	**94.2**	8.0	1.0 U	**11.6**
	41 to 45		1.0 U	1.0 U	52.4	4.0	1.0 U	**15.6**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.7**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0024	8 to 12	06/24/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**65.6**
	36 to 40		**10 U**	**10 U**	**590**	10.0	10 U	**570**
	41 to 45		5.0 U	5.0 U	**210**	17.0	5.0 U	**390**
	46 to 50		1.0 U	1.0 U	2.3	1.0 U	1.0 U	**1.9**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0025	8 to 12	06/25/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11.3**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12.9**
	36 to 40		1.0 U	1.0 U	8.1	1.1	1.0 U	**67.3**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.1**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0026	8 to 12	06/25/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**24.0**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.7**
	36 to 40		1.0 U	1.0 U	42.8	3.2	1.0 U	**390**
	41 to 45		1.0 U	1.0 U	4.2	1.1	1.0 U	**27.9**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.6**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.9**
DPT0027	8 to 12	06/25/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		5.0 U	5.0 U	**270**	38.0	5.0 U	**770**
	41 to 45		1.0 U	1.0 U	1.4	20.5	1.0 U	**310**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.7**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0028	8 to 12	06/26/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.7**
	26 to 30		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**6.0**
	36 to 40		**20 U**	**20 U**	**1,000**	20 U	**20 U**	**290**
	41 to 45		5.0 U	5.0 U	**440**	14.0	5.0 U	**430**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.2**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0029	8 to 12	06/26/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.1**
	36 to 40		1.0 U	1.0 U	8.5	1.0 U	1.0 U	**96.6**
	41 to 45		1.0 U	1.0 U	6.3	1.0 U	1.0 U	**58.2**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.2**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0030	8 to 12	06/26/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	12.6	2.1	1.0 U	**4.2**
	41 to 45		1.0 U	1.0 U	26.0	3.5	1.0 U	**5.3**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0031	8 to 12	07/16/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**32.3**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4
	36 to 40		1.0 U	1.0 U	67.9	2.9	1.0 U	**340**
	41 to 45		1.0 U	1.0 U	**83.8**	7.3	1.0 U	**200**
	46 to 50		1.0 U	1.0 U	1.5	1.0 U	1.0 U	**9.3**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0032	8 to 12	07/16/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	5.9	1.0 U	1.0 U	**38.1**
	41 to 45		1.0 U	1.0 U	12.3	1.0	1.0 U	**23.1**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.4**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0033	8 to 12	07/16/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	2.4	**2.1**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.9	1.0 U
	36 to 40		1.0 U	1.0 U	23.4	1.0 U	1.0 U	**190**
	41 to 45		5.0 U	5.0 U	**780**	72.0	**18.0**	**360**
	46 to 50		1.0 U	1.0 U	13.7	2.3	1.0 U	**120**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0034	8 to 12	07/17/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**4.8**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	34 to 38		1.0 U	1.0 U	**99.2**	1.7	1.0 U	**22.8**
	41 to 45		2.0 U	2.0 U	**140**	2.8	2.0 U	**21.0**
	46 to 50		1.0 U	1.0 U	18.5	1.0 U	1.0 U	**15.6**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0035	8 to 12	07/17/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.3**
	36 to 40		1.0 U	1.0 U	9.6	1.0 U	1.0 U	**69.8**
	41 to 45		1.0 U	2.0 U	5.2	1.0 U	1.0 U	**13.8**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0036	8 to 12	07/17/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	19.2	1.0 U	1.0 U	**130**
	36 to 40		**100 U**	**100 U**	**2,100**	**280**	**100 U**	**910**
	41 to 45		2.0 U	2.0 U	**130**	19.0	2.0 U	**110**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0037	8 to 12	08/04/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**
	24 to 28		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0038	8 to 12	08/04/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	6.0	1.0 U	1.0 U	**11.4**
	36 to 40		1.0 U	1.0 U	19.3	3.7	1.0 U	**17.7**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0039	8 to 12	08/04/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20	08/05/2009	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	48.2	1.5	1.0 U	**88.5**
	36 to 40		5.0 U	5.0 U	**730**	**290**	5.3	**1,200**
	41 to 45		1.0 U	1.0 U	2.0	1.0 U	1.0 U	**7.3**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0040	8 to 12	08/05/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**130**
	36 to 40		1.0 U	1.0 U	2.3	5.5	1.0 U	**290**
	41 to 45		1.0 U	1.0 U	2.1	8.2	1.0 U	**460**
	46 to 50	08/06/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0041	8 to 12	08/06/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.6**
	36 to 40		1.0 U	1.0 U	7.6	1.0 U	1.0 U	**60.8**
	41 to 45		1.0 U	1.0 U	15.1	1.0 U	1.0 U	**99.1**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.7**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0042	8 to 12	08/06/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**18.7**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**45.2**
	36 to 40		2.0 U	2.0 U	**120**	2.7	2.0 U	**570**
	41 to 45		1.0 U	1.0 U	**290**	15.4	1.7	**430**
	46 to 50		1.0 U	1.0 U	1.9	1.0 U	1.0 U	**21.2**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0043	8 to 12	08/06/2009	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	2.0	3.7	1.0 U	**29.3**
	36 to 40		**10 U**	**10 U**	28.0	47.0	10 U	**600**
	41 to 45		1.0 U	1.0 U	3.0	1.0 U	1.0 U	**4.7**
	46 to 50		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0044	31 to 35	08/06/2009	1.0 U	1.0 U	9.6	1.0 U	1.0 U	**2.3**
	36 to 40		1.0 U	1.0 U	20.8	1.0 U	1.0 U	**3.9**
	41 to 45		5.0 U	5.0 U	**79.0**	5.0 U	5.0 U	**17.0**
	46 to 50		2.0 U	2.0 U	13.0	2.0 U	2.0 U	**34.0**
	56 to 60	10/04/2012	1.0 U	1.0 U	51.7	1.0 U	1.0 U	**28.3**
	66 to 70	10/5/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0045	8 to 12	01/25/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	2.0	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	13.6	1.6	1.0 U	**5.0**
	42 to 46		**5.1**	1.0 U	19.0	1.6	1.0 U	**5.5**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0046	8 to 12	01/25/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	6.7	1.8	1.0 U	**10.0**
	41 to 45		1.0 U	1.0 U	9.5	3.4	1.0 U	**4.4**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0047	8 to 12	01/25/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	4.0	1.0 U	1.0 U	**12.2**
	36 to 40		1.0 U	1.0 U	21.2	5.1	1.0 U	**28.1**
	41 to 45		1.0 U	1.0 U	1.8	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0048	8 to 12	01/26/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	3.5	4.9	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	2.6	1.0 U	**14.4**	**2.4**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0049	26 to 30	01/26/2010	1.0 U	1.0 U	1.9	17.9	1.0 U	**3.8**
	36 to 40		1.0 U	1.0 U	3.1	1.0 U	1.0 U	**3.4**
	41 to 45		1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0050	8 to 12	01/26/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**62.1**
	36 to 40		1.0 U	1.0 U	6.5	39.1	1.0 U	**1,100 L**
	41 to 45		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**3.3**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0051	26 to 30	01/26/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.8**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**20.3**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50	01/27/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0052	26 to 30	01/27/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**130 L**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**100**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**40.5**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0053	26 to 30	01/27/2010	1.0 U	1.0 U	2.3	1.0 U	1.0 U	**90.9**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0054	26 to 30	01/27/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0055	26 to 30	01/27/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.0**
	36 to 40		1.0 U	1.0 U	1.0	1.0 U	1.0 U	**150 L**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**38.5**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12.7**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0056	8 to 12	01/28/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	7.6	1.0 U	1.0 U	**7.3**
	41 to 45		1.0 U	1.0 U	8.4	2.1	1.0 U	**25.1**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0057	26 to 30	01/28/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.5	1.0 U	1.0 U	**280**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**71.4**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**15.7**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0058	26 to 30	01/28/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0059	26 to 30	01/28/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0060	26 to 30	01/28/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	**140**	3.8	1.0 U	**22.3**
	41 to 45		5.0 U	5.0 U	**120**	12.0	5.0 U	**130**
DPT0061	26 to 30	01/29/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	57.3	1.0 U	1.0 U	**7.9**
	41 to 45		1.0 U	1.0 U	3.4	1.0 U	1.0 U	**4.4**
	46 to 50		1.0 U	1.0 U	1.3	1.0 U	1.0 U	**7.3**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0062	8 to 12	01/29/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	2.8	1.0 U	1.0 U	**7.6**
	36 to 40		1.0 U	1.0 U	45.1	4.8	1.0 U	**3.8**
	41 to 45		1.0 U	1.0 U	50.5	4.9	1.0 U	**13.8**
	46 to 50		1.0 U	1.0 U	3.7	1.0 U	1.0 U	**3.3**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0063	26 to 30	01/29/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12.7**
	46 to 50		1.0 U	1.0 U	1.9	1.0 U	1.0 U	**5.7**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0064	26 to 30	02/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	2.9	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	4.6	1.0 U	1.0 U	1.4
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0065	26 to 30	02/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
	36 to 40		1.0 U	1.0 U	**110**	1.0 U	1.0 U	**55.7**
	41 to 45		1.0 U	1.0 U	**86.6**	1.0 U	1.0 U	**36.9**
	46 to 50		1.0 U	1.0 U	32.1	1.2	1.0 U	**34.5**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0066	26 to 30	02/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**120**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**220**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**110**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**10.3**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0067	8 to 12	02/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	3.3	9.3	1.0 U	**420**
	41 to 45		1.0 U	1.0 U	10.5	9.0	1.0 U	**200**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.3**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0068	26 to 30	02/02/2010	1.0 U	1.0 U	2.6	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	4.4	1.0 U	1.0 U	**6.1**
	41 to 45		1.0 U	1.0 U	2.3	1.0 U	1.0 U	**13.3**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.2**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0069	8 to 12	02/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	2.8	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.8**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.4**
	36 to 40		1.0 U	1.0 U	7.5	1.0 U	1.0 U	**82.2**
	41 to 45		1.0 U	1.0 U	14.8	1.0 U	1.0 U	**110 L**
	46 to 50		1.0 U	1.0 U	3.8	1.0 U	1.0 U	**31.6**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0070	26 to 30	02/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	2.9	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	**15.6**	**5.4**
	41 to 45		**10 U**	**10 U**	10 U	10 U	**26.0**	**37.0**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0071	26 to 30	02/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.4	3.1	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	2.7	1.0 U	1.0 U	**14.6**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0072	8 to 12	02/03/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
	36 to 40		**1,000 U**	**160,000**	**48,000**	**1,000 U**	**1,000 U**	**4,600**
	41 to 45		**20 U**	**1,300**	**570**	20 U	**20 U**	**54.0**
	46 to 50		1.0 U	**24.0**	4.7	1.0 U	1.0 U	1.0 U
	56 to 60		5.0 U	**210**	**100**	5.0 U	5.0 U	**4.0 J**
	61 to 65		1.0 U	**43.8**	15.8	1.0 U	1.0 U	1.0 U
DPT0073	8 to 12	02/03/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**
	36 to 40		1.0 U	1.6	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0074	8 to 12	02/03/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		**500 U**	**8,100**	**18,000**	**500 U**	**500 U**	**7,200**
	41 to 45		**100 U**	**2,900**	**4,000**	100 U	**100 U**	**1,300**
	46 to 50		1.0 U	**4.2**	3.6	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	2.5	2.9	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.7	2.0	1.0 U	1.0 U	1.0 U
DPT0075	16 to 20	02/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0076	16 to 20	02/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0077	16 to 20	02/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0078	16 to 20	02/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40	02/23/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**9.0**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.3**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.7**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0079	16 to 20	02/23/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	6.7	1.0 U	1.0 U	**3.2**
	36 to 40		1.0 U	1.0 U	**140**	1.2	1.0 U	**71.9**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.9**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0080	16 to 20	02/23/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	9.0	5.4	1.0 U	**1,400**
	41 to 45		1.0 U	1.0 U	21.6	15.2	1.0 U	**2,800**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**75.8**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**
DPT0081	26 to 30	02/23/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0082	8 to 12	02/24/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.2**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0083	8 to 12	02/24/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0084	8 to 12	02/24/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0085	8 to 12	02/25/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0086	8 to 12	02/25/2010	**100 U**	**100 U**	**1,000**	100 U	**100 U**	**560**
	12 to 16		**100 U**	**100 U**	**3,300**	100 U	**100 U**	**620**
	16 to 20		**50 U**	**50 U**	**5,100**	56.0	**50 U**	**680**
	21 to 25		**20 U**	**20 U**	**770**	20 U	**20 U**	**480**
	26 to 30		5.0 U	5.0 U	**96.0**	5.0 U	5.0 U	**55.0**
	31 to 35		1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0087	8 to 12	02/25/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**65.2**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0088	8 to 12	02/25/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20	02/26/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**16.8**
	36 to 40		**500 U**	**6,000**	**14,000**	**500 U**	**500 U**	**13,000**
	41 to 45		**200 U**	**4,800**	**4,200**	200 U	**200 U**	**1,500**
	46 to 50		1.0 U	1.3	1.3	1.0 U	1.0 U	1.0 U
DPT0089	8 to 12	02/26/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	7.8	1.0 U	1.0 U	**180**
	41 to 45		**200 U**	**520**	**6,200**	200 U	**200 U**	**4,800**
	46 to 50		1.0 U	1.1	15.7	1.2	1.0 U	**37.1**
	56 to 60	10/16/2012	1.0 U	1.0 U	4.7	1.0 U	1.0 U	**2.0**
DPT0090	8 to 12	02/26/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	2.2	1.0 U	**7.5**
	46 to 50	02/26/2010	1.0 U	1.0 U	1.0 U	1.4	1.0 U	**3.0**
DPT0091	8 to 12	03/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.1	1.0 U	**100**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11.2**
DPT0092	8 to 12	03/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.3**
	12 to 16		**50 U**	**50 U**	**2,400**	74.0	**50 U**	**1,200**
	16 to 20		**1,000 U**	**3,000**	**22,000**	**900 I**	**1,000 U**	**2,600**
	26 to 30		5.0 U	5.0 U	**130**	18.0	5.0 U	**540**
	31 to 35		**200 U**	**3,800**	**5,100**	200 U	**200 U**	**1,000**
	36 to 40		**100 U**	**4,900**	**3,600**	100 U	**100 U**	**970**
	41 to 45		1.0 U	2.3	2.8	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0093	8 to 12	03/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.7**
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0094	8 to 12	03/01/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35	03/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	**4.7**	22.8	2.0	1.0 U	**33.2**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0095	8 to 12	03/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.6**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**13.3**
DPT0096	8 to 12	03/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		5.0 U	5.0 U	**93.0**	5.0	5.0 U	**510**
	26 to 30		**2,000 U**	**2,000 U**	**34,000**	**2,000 U**	**2,000 U**	**7,700**
	31 to 35		**500 U**	**500 U**	**14,000**	**500 U**	**500 U**	**12,000**
	36 to 40		1.0 U	1.0 U	12.1	1.0 U	1.0 U	**490**
	41 to 45		1.0 U	1.0 U	3.8	1.0 U	1.0 U	**1.5**
	46 to 50		1.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U
DPT0097	8 to 12	06/14/2010	1.0 U	1.0 U	28.8	1.0 U	1.0 U	**160**
	12 to 16		**20 U**	5.8 U,I	**3,100**	72.0	**20 U**	**1,500**
	16 to 20		**200 U**	**58 U,I**	**16,000**	**520**	**200 U**	**1,000**
	21 to 25		**1,000 U**	**3,800**	**52,000**	**2,100**	**1,000 U**	**1,500**
	26 to 30		**100 U**	**29 U,I**	**3,200**	**110**	**100 U**	**1,400**
	31 to 35		5.0 U	1.4 U,I	4.6 I	5.0 U	5.0 U	**1.6 I**
	36 to 40		1.0 U	1.0 U	8.9	1.0 U	1.0 U	**1.6**
	41 to 45		1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	8.6	1.0 U	1.0 U	1.0 U
DPT0098	8 to 12	06/14/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		2.0 U	1.0 U,I	2.0 U	2.0 U	2.0 U	**7.6**
	31 to 35		**100 U**	**580**	**1,000**	**120**	**100 U**	**320**
	36 to 40		**2,000 U**	**36,000**	**49,000**	**700 I**	**2,000 U**	**13,000**
	41 to 45		**20 U**	**23.0**	**220**	5.4 I	**20 U**	**64.0**
	46 to 50		**10 U**	**16.0**	19.0	10 U	10 U	**6.4 I**
DPT0099	8 to 12	06/14/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20	06/15/2010	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		5.0 U	1.4 U,I	32.0	8.8	5.0 U	**180**
	31 to 35		**200 U**	**200 U**	**6,500**	82 I	**200 U**	**13,000**
	36 to 40		**10 U**	2.9 U,I	**370**	11.0	10 U	**4,900**
	41 to 45		1.0 U	1.0 U	1.5	1.0 U	1.0 U	**1.9**
	46 to 50		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**2.6**
DPT0100	8 to 12	06/15/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		**1,000 U**	**21,000**	**31,000**	**620 I**	**1,000 U**	**7,400**
	36 to 40		**2,000 U**	**32,000**	**59,000**	**780 I**	**2,000 U**	**17,000**
	41 to 45		5.0 U	**210**	**380**	6.6	5.0 U	**72.0**
	46 to 50		1.0 U	**19.5**	28.0	1.0 U	1.0 U	**5.4**
DPT0101	8 to 12	06/15/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.1	1.0 U	1.0 U	**1.6**
	16 to 20		1.0 U	1.0 U	1.0	1.0 U	1.0 U	**8.8**
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**30.1**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**260**
	31 to 35		**10 U**	2.9 U,I	10 U	10 U	10 U	**120**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12.1**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.0**
DPT0102	8 to 12	06/16/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0103	8 to 12	06/16/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		2.0 U	1.0 U,I	2.0 U	2.0 U	2.0 U	**13.0**
	36 to 40		**200 U**	**2,900**	**8,700**	**160 I**	**200 U**	**4,000**
	41 to 45		**100 U**	**1,300**	**2,200**	57 I	**100 U**	**690**
	46 to 50		5.0 U	2.4 I	3.0 I	5.0 U	5.0 U	1.2 U,I
DPT0104	8 to 12	06/16/2010	5.0 U	1.4 U,I	5.0 U	5.0 U	5.0 U	1.2 U,I
	12 to 16		5.0 U	1.4 U,I	5.0 U	5.0 U	5.0 U	1.2 U,I
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.8	1.0 U	**530**
	41 to 45	06/17/2010	**10 U**	2.8 U,I	61.0	10 U	10 U	**790**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0105	8 to 12	06/17/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0106	8 to 12	06/17/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0107	8 to 12	06/18/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**21.8**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**15.8**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0108	8 to 12	06/18/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0109	8 to 12	06/21/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0110	31 to 35	06/21/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0111	8 to 12	06/21/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0112	8 to 12	06/21/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0113	8 to 12	06/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.9**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.8**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.8**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0114	8 to 12	06/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.6**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.9**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0115	8 to 12	06/22/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0116	8 to 12	08/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		**18 U,I**	**26 U,I**	28 U,I	100 U	**100 U**	**21 U,I**
	26 to 30		**18 U,I**	**26 U,I**	28 U,I	100 U	**100 U**	**21 U,I**
	31 to 35		**9.0 U,I**	**13 U,I**	14 U,I	50 U	**50 U**	**11 U,I**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0117	8 to 12	08/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		**11 U,I**	**6.6 U,I**	8.0 U,I	20 U	**20 U**	**6.4 U,I**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.7**
DPT0118	8 to 12	08/02/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		2.6 U,I	1.7 U,I	2.0 U,I	5.0 U	5.0 U	1.6 U,I
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0119	8 to 12	08/03/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
	12 to 16		1.0 U	1.0 U	1.4	1.0 U	1.0 U	**3.4**
	16 to 20		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**4.9**
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12.6**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**37.1**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**180**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**8.7**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0120	8 to 12	08/03/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		5.2 U,I	3.3 U,I	**170**	10 U	10 U	**400**
	21 to 25		**52 U,I**	**33 U,I**	**9,300**	**230**	**100 U**	**4,100**
	26 to 30		1.1 U,I	1.0 U,I	20.0	2.0 U	2.0 U	**190**
	31 to 35		1.0 U	1.0 U	3.9	1.0 U	1.0 U	**1.5**
	36 to 40		1.0 U	1.0 U	12.1	1.0 U	1.0 U	**1.8**
	41 to 45		1.0 U	1.0 U	14.0	1.0 U	1.0 U	**3.0**
	46 to 50		1.0 U	1.0 U	29.0	1.0 U	1.0 U	**5.6**
DPT0121	8 to 12	08/03/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30	08/04/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		**52 U,I**	**33 U,I**	**6,400**	100 U	**100 U**	**4,900**
	41 to 45		**26 U,I**	**1,700**	**4,900**	66.0	**50 U**	**1,200**
	46 to 50		1.0 U	**8.3**	**72.6**	1.0 U	1.0 U	**28.0**
DPT0122	8 to 12	08/04/2010	1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		**52 U,I**	**120**	**6,400**	100 U	**100 U**	**2,900**
	41 to 45		**52 U,I**	**2,700**	**6,800**	**110**	**100 U**	**1,600**
	46 to 50		1.0 U	3.1	14.5	1.0 U	1.0 U	**2.6**
DPT0123	8 to 12	08/04/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45	08/05/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0124	8 to 12	08/05/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	**87.2**	1.9	1.0 U	**37.8**
	16 to 20		1.0 U	1.0 U	**3,600**	6.6	1.0 U	**560**
	21 to 25		**26 U,I**	**17 U,I**	**4,500**	50 U	**50 U**	**3,000**
	26 to 30		1.0 U	1.0 U	2.9	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	36 to 40		2.6 U,I	1.7 U,I	**360**	8.5	5.0 U	**290**
	41 to 45		1.0 U	1.0 U	2.2	1.0 U	1.0 U	1.2
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0125	8 to 12	08/05/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.1**
	41 to 45		**11 U,I**	**6.6 U,I**	**1,300**	24.0	**20 U**	**1,700**
	46 to 50		1.0 U	1.0 U	7.0	1.7	1.0 U	**35.8**
	56 to 60	10/16/2012	1.0 U	1.0 U	5.1	1.0 U	1.0 U	1.0 U
DPT0126	8 to 12	08/05/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	2.1	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50	08/06/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0127	31 to 35	08/06/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.7**
	41 to 45		**52 U,I**	**2,400**	**2,700**	**120**	**100 U**	**320**
	46 to 50		2.6 U,I	**66.0**	**210**	6.2	5.0 U	**15.0**
	56 to 60	10/05/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0128	31 to 35	08/06/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.1**
DPT0129	8 to 12	08/06/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		**52 U,I**	**33 U,I**	**5,900**	**110**	**100 U**	**3,000**
	46 to 50		5.2 U,I	**110**	**790**	22.0	10 U	**250**
DPT0130	31 to 35	08/06/2010	1.0 U	1.0 U	1.4	1.4	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	10.5	1.0 U	**770**
	41 to 45		1.0 U	1.0 U	1.6	3.6	1.0 U	**170**
	46 to 50		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**3.6**
DPT0131	31 to 35	08/09/2010	**11 U,I**	**6.6 U,I**	**940**	65.0	**20 U**	**1,600**
	36 to 40		**26 U,I**	**17 U,I**	**2,200**	71.0	**50 U**	**760**
	41 to 45		**26 U,I**	**220**	**3,000**	84.0	**50 U**	**320**
	46 to 50		**52 U,I**	**630**	**2,200**	100 U	**100 U**	**370**
	61 to 65	08/10/2010	1.0 U	1.9	14.6	1.0 U	1.0 U	**2.5**
DPT0132	8 to 12	08/09/2010	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	22 to 26		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0133	8 to 12	08/09/2010	1.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		**11 U,I**	**6.6 U,I**	**710**	13 I	**20 U**	**400**
	21 to 25		**260 U,I**	**170 U,I**	**27,000**	**610**	**500 U**	**1,700**
	26 to 30		**110 U,I**	**66 U,I**	**15,000**	**210**	**200 U**	**910**
	31 to 35		**11 U,I**	**6.6 U,I**	**1,100**	15 I	**20 U**	**580**
	36 to 40		**26 U,I**	**50.0**	**2,800**	38 I	**50 U**	**790**
	41 to 45		1.0 U	1.0 U	12.9	1.0 U	1.0 U	**4.0**
	46 to 50		1.0 U	1.0 U	3.7	1.0 U	1.0 U	1.0 U
DPT0134	8 to 12	08/09/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30	08/10/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		**11 U,I**	**94.0**	**500**	73.0	**20 U**	**200**
	36 to 40		**2,600 U,I**	**100,000**	**39,000**	**5,000 U**	**5,000 U**	**4,200 I**
	41 to 45		**26 U,I**	**1,500**	**1,500**	43 I	**50 U**	**200**
	46 to 50		1.0 U	**46.4**	12.5	1.0 U	1.0 U	1.0 U
DPT0135	8 to 12	08/10/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	3.0	1.0 U	1.0 U	**7.8**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	73.6	1.0 U	**2,500 L**
	41 to 45		1.0 U	1.0 U	1.0 U	3.5	1.0 U	**72.4**
	46 to 50		1.0 U	1.0 U	1.3	1.0 U	1.0 U	**3.7**
DPT0136	31 to 35	08/10/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.7**
	36 to 40		1.0 U	1.0 U	1.8	1.0 U	1.0 U	**5.8**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.1**
	46 to 50		**11 U,I**	**110**	**930**	31.0	**20 U**	**78.0**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0137	31 to 35	08/10/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0138	8 to 12	08/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.9**
	41 to 45		1.0 U	1.0 U	2.4	1.0 U	1.0 U	**41.8**
	46 to 50		1.0 U	1.0 U	1.7	1.0 U	1.0 U	**9.2**
	51 to 55	10/04/2012	1.0 U	1.0 U	1.5	1.0 U	1.0 U	**5.0**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0139	8 to 12	08/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		5.2 U,I	3.3 U,I	**600**	34.0	10 U	**850**
	41 to 45		**52 U,I**	**500**	**7,200**	**190**	**100 U**	**1,700**
	46 to 50		**110 U,I**	**3,400**	**6,100**	**180 I**	**200 U**	**910**
	51 to 55	10/12/2010	**26 U,I**	**1,200**	**1,600**	88.0	**15 U,I**	**350**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0140	8 to 12	08/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0141	8 to 12	10/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0142	8 to 12	10/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0143	26 to 30	10/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.9**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.9**
DPT0144	8 to 12	10/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20	10/12/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
	41 to 45		1.0 U	1.0 U	1.0 U	1.4	1.0 U	**30.4**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.3**
	51 to 55		1.0 U	1.0 U	3.4	1.0 U	1.0 U	**2.0**
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0145	8 to 12	10/12/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.6	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.6	3.9	1.0 U	**150**
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0146	26 to 30	10/12/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1
	36 to 40		1.0 U	1.0 U	7.1	4.3	1.0 U	**18.4**
	41 to 45		**26 U,I**	**2,500**	**1,900**	100	**15 U,I**	**330**
	46 to 50		1.0 U	1.8	55.4	3.0	1.0 U	**40.4**

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0147	26 to 30	10/13/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0148	8 to 12	10/13/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	2.9	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	8.6	7.6	1.0 U	**470**
	46 to 50		**10 U,I**	**6.6 U,I**	**260**	11 I	6.0 U,I	**720**
	51 to 55	10/04/2012	**20 U**	**20 U**	**750**	13 I	**20 U**	**370**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0149	8 to 12	10/13/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**100**
	36 to 40		1.0 U	1.0 U	3.8	10.9	1.0 U	**2,300**
	41 to 45		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**310**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**130**
	56 to 60	10/03/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0150	26 to 30	10/13/2010	1.0 U	1.0 U	7.9	1.0 U	1.0 U	**2.9**
	31 to 35	10/14/2010	1.0 U	1.0 U	20.1	1.0 U	1.0 U	**11.3**
	36 to 40		1.0 U	1.0 U	14.4	1.0 U	1.0 U	**15.2**
	41 to 45		1.0 U	1.0 U	21.5	1.0 U	1.0 U	**22.6**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0151	26 to 30	10/14/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
	36 to 40		2.6 U,I	**5.2**	**220**	11.0	1.5 U,I	**280**
	41 to 45		1.0 U	1.0 U	6.7	1.0 U	1.0 U	**30.4**
	46 to 50		1.0 U	1.0 U	7.2	1.6	1.0 U	**37.3**
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0152	8 to 12	10/14/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.9**
	41 to 45		2.6 U,I	**4.0 I**	**300**	17.0	1.5 U,I	**360**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0153	26 to 30	10/14/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35	10/15/2010	1.0 U	1.0 U	1.2	1.0 U	1.0 U	**42.4**
	36 to 40		5.2 U,I	3.3 U,I	**86.0**	8.6 I	3.0 U,I	**460**
	41 to 45		1.0 U	1.2	48.4	1.4	1.0 U	**28.5**
	46 to 50		**10 U,I**	**6.6 U,I**	**550**	16 I	6.0 U,I	**170**
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.2**
DPT0154	8 to 12	10/15/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	6.5	1.0 U	1.0 U	1.2
	36 to 40		1.0 U	1.0 U	6.4	1.0 U	1.0 U	**3.3**
	41 to 45		1.0 U	1.0 U	2.7	1.0 U	1.0 U	**21.6**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0155	8 to 12	10/15/2010	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**9.8**
	31 to 35		1.0 U	1.0 U	2.5	1.0 U	1.0 U	**42.3**
	36 to 40		1.0 U	1.0 U	12.0	1.0 U	1.0 U	**110**
	41 to 45		1.0 U	1.0 U	1.4	1.0 U	1.0 U	**79.4**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12.0**
	56 to 60	10/05/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
DPT0156	26 to 30	10/19/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	2	1.0 U	5.9	**12.3**
DPT0157	26 to 30	10/19/2011	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	3.7	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	3.3	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	3.0	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0158	26 to 30	10/19/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	3.3	1.0 U	1.0 U	**110**
	41 to 45		1.0 U	1.0 U	6.2	2.2	1.0 U	**210**
	46 to 50		1.0 U	1.0 U	14.4	1.1	1.0 U	**59.9**
	51 to 55	10/4/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.5**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1
DPT0159	8 to 12	02/07/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.2	1.0 U	1.0 U	**16.8**
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**53.6**
	26 to 30	10/19/2011	1.0 U	1.0 U	4.8	1.0 U	1.0 U	**120**
	31 to 35		5.0 U	5.0 U	**140**	5.0 U	5.0 U	**49**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0160	26 to 30	10/20/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0161	8 to 12	02/07/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30	10/20/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**110**
	31 to 35		1.0 U	1.0 U	3.6	4.4	1.0 U	**1,100**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.2**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0162	26 to 30	10/20/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
	31 to 35		**5.0 U**	1.5 I	**83**	4.2 I	5.0 U	**160**
	36 to 40		1.0 U	1.0 U	4.4	1.0 U	1.0 U	**14**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0163	26 to 30	10/20/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.2**
DPT0164	26 to 30	10/21/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0165	26 to 30	10/21/2011	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0166	26 to 30	01/09/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0167	8 to 12	02/07/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30	01/09/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0168	26 to 30	01/09/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0169	26 to 30	01/09/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	5	1.0 U	1.0 U	1.2
	36 to 40		1.0 U	1.0 U	32.2	1.0 U	1.0 U	**17.6**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0170	26 to 30	01/10/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0171	26 to 30	01/10/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.7**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**18.3**
	36 to 40		1.0 U	1.0 U	1.6	1.0 U	1.0 U	**52.6**
	41 to 45		1.0 U	1.0 U	2.5	1.0 U	1.0 U	**50.7**
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.0**
	56 to 60	10/5/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0172	26 to 30	01/10/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	2.1	1.0 U	1.0 U	**48.2**
	36 to 40		1.0 U	1.0 U	4.0	1.0 U	1.0 U	**27.7**
	41 to 45		1.0 U	1.0 U	4.3	1.0 U	1.0 U	**13.5**
	46 to 50		1.0 U	1.0 U	**84.4**	2.2	1.0 U	**27.0**
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0173	26 to 30	01/10/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45	01/11/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	51 to 55		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	61 to 65		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0174	26 to 30	01/11/2012	1.0 U	1.0 U	1.0 U	2.4	1.0 U	1.4
	31 to 35		**10 U**	**22**	**1,600**	48	6.5 I	**720**
	36 to 40		**50 U**	**13 U,I**	**2,800**	80	**50 U**	**740**
	41 to 45		**50 U**	**31 I**	**2,600**	85	**50 U**	**400**
	46 to 50		**20 U**	5 U,I	**1,100**	37	**20 U**	**280**
	51 to 55	10/3/2012	1.0 U	1.0 U	**170**	3.5	1.0 U	**76**
	56 to 60		1.0 U	1.0 U	3.8	1.0 U	1.0 U	1.0 U
DPT0175	26 to 30	01/11/2012	1.0 U	1.0 U	4.5	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	7.6	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	19.1	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	19.8	1.0 U	1.0 U	**1.5**
	46 to 50		1.0 U	1.0 U	3.3	1.0 U	1.0 U	**6.5**
DPT0176	26 to 30	01/11/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0177	8 to 12	02/09/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12 to 16		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5**
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.7**
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.4**
	26 to 30	01/12/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**15.5**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.6**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0178	26 to 30	01/12/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**35.4**
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.6**
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0179	8 to 12	02/07/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0180	8 to 12	02/07/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0181	8 to 12	02/08/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0182	8 to 12	02/08/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.5**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0183	8 to 12	02/08/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0184	8 to 12	02/09/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	16 to 20		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	46 to 50		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0185	16 to 20	10/2/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0186	26 to 30	10/2/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0187	26 to 30	10/2/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0188	26 to 30	10/2/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	**100**	10.5	1.0 U	**420**
	36 to 40	10/3/2012	**10 U**	**10 U**	**990**	26	10 U	**800**
	41 to 45		**20 U**	**20 U**	**2,000**	27	**20 U**	**1,100**
	56 to 60		1.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
DPT0189	16 to 20	10/3/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.3**
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.2**
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**55**
	31 to 35		1.0 U	1.0 U	3.5	1.0 U	1.0 U	**62.7**
	36 to 40		1.0 U	1.0 U	2.0	1.0 U	1.0 U	**11.1**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.2**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0190	26 to 30	10/3/2012	1.0 U	1.0 U	14.9	1.0 U	1.0 U	**22.1**
	31 to 35		1.0 U	1.0 U	13.5	1.0 U	1.0 U	**34**
	36 to 40		1.0 U	1.0 U	1.0	1.0 U	1.0 U	**8.7**
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.3**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0191	26 to 30	10/3/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.2**
	41 to 45		1.0 U	1.0 U	7.4	1.4	1.0 U	**73.9**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0192	16 to 20	10/4/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	21 to 25		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	26 to 30		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	31 to 35		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	36 to 40		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	41 to 45		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0193	67 to 71	10/4/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0194	51 to 55	10/5/2012	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.3**
	56 to 60		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DPT0195	51 to 55	10/5/2012	1.0 U	1.0 U	6.1	1.0 U	1.0 U	**5.9**
	56 to 60		1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
DPT0196	8 to 12	03/18/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	**1,600 L**	77	0.18 U	**290 L**
	21 to 25		0.32 U	**7,700 L**	**24,000 L**	**2300 L**	**86**	**1,300 L**
	26 to 30		0.32 U	**140 J,L**	**15,000 J,L**	**920 J,L**	**51**	**8,000 J,L**
	31 to 35		**40 U**	**2,000**	**4,300**	70 U	**45 U**	**310**
	36 to 40		0.32 U	**15,000 J,L**	**14,000 J,L**	**260 J,L**	**150**	**2,600 J,L**
	41 to 45		**80 U**	**14,000**	**15,000**	140 U	**90 U**	**65 U**
	56 to 60		0.32 U	**120**	**220**	5.6	0.36 U	**12 J,L**
	66 to 70		0.16 U	**33**	**84**	0.28 U	0.18 U	0.13 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0197	8 to 12	03/18/2013	0.16 U	0.56 I	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	**20**	65	0.28 U	0.18 U	**24**
	21 to 25		0.32 U	**11 J,L**	**430 J,L**	0.56 U	0.36 U	**54 J,L**
	26 to 30		0.32 U	**8.6 J,L**	26 J,L	0.56 U	0.36 U	**10 J,L**
	31 to 35		0.32 U	**6.7 J,L**	0.4 U	0.56 U	0.36 U	0.26 U
	36 to 40		0.16 U	0.22 U	0.74 I	0.28 U	0.18 U	1.1
	41 to 45		0.32 U	**390 J,L**	**1,200 L**	8.3	0.36 U	**65**
	56 to 60		0.32 U	**3.5**	4.6	0.56 U	0.36 U	0.26 U
DPT0198	8 to 12	03/18/2013	0.32 U	0.44 U	0.4 U	0.56 U	0.36 U	0.26 U
	16 to 20		0.32 U	0.44 U	0.4 U	0.56 U	0.36 U	0.26 U
	21 to 25		0.32 U	0.44 U	0.4 U	0.56 U	0.36 U	0.26 U
	26 to 30		0.32 U	0.44 U	6.2	0.56 U	0.36 U	**2.5**
	31 to 35		0.32 U	0.44 U	5.2	0.56 U	0.36 U	0.26 U
	36 to 40		**40 U**	**120 I**	**7,300**	70 U	**45 U**	**4,300**
	41 to 45		**40 U**	**55 U**	50 U	70 U	**45 U**	**160 I**
	56 to 60		0.32 U	0.44 U	6.8	0.56 U	0.36 U	0.26 U
DPT0199	8 to 12	03/19/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.8 U	1.1 U	19	0.56 U	0.36 U	**450**
	41 to 45		0.32 U	0.44 U	**88**	0.56 U	0.36 U	**200**
	56 to 60		0.32 U	0.44 U	21	0.56 U	0.36 U	**7.6**
DPT0200	8 to 12	03/19/2013	0.16 U	0.4 I	0.97 I	0.28 U	0.18 U	0.56 I
	16 to 20		1.6 U	2.2 U	2 U	4.1 I	1.8 U	**4.6 I**
	21 to 25		**40 U**	**55 U**	**10,000**	70 U	**45 U**	**1,300**
	26 to 30		**40 U**	**13,000**	**110,000 L**	**1,300**	**45 U**	**4,900**
	31 to 35		**40 U**	**3,300**	**58,000 J,L**	**650**	**45 U**	**19,000**
	36 to 40		**40 U**	**340**	**2,700 J,L**	70 U	**45 U**	**32.5 U**
	41 to 45		0.16 U	2.5	8.2	0.28 U	0.18 U	0.13 U
	56 to 60		0.16 U	2.9	28	0.28 U	0.18 U	0.13 U
DPT0201	8 to 12	03/19/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		**40 U**	**9,400**	**1,900**	70 U	**45 U**	**32.5 U**
	21 to 25		**40 U**	**1,700**	**1,300**	70 U	**45 U**	**32.5 U**
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.64 I	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	**15**	5.6	0.28 U	0.18 U	0.13 U
	41 to 45		0.16 U	2	1.8	0.28 U	0.18 U	0.13 U
	56 to 60		0.16 U	2.2	20	0.28 U	0.18 U	0.13 U
DPT0202	8 to 12	03/20/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		**8 U**	**37 I**	10 U	14 U	9 U	**6.5 U**
	21 to 25		**40 U**	**55 U**	**42,000**	**1,100**	**45 U**	**1,900**
	26 to 30		**16 U**	**22 U**	**58,000 L**	**1,500**	**18 U**	**2,200**
	31 to 35		**8 U**	**11 U**	**6,500 J,L**	**120**	9 U	**1,500**
	36 to 40		**40 U**	**22,000**	**23,000 J,L**	**500**	**45 U**	**1,500**
	41 to 45		**40 U**	**450**	**4,700 J,L**	70 U	**45 U**	**270**
	56 to 60		0.16 U	**10**	**330 L**	7.2	0.18 U	**14**
	66 to 70	03/21/2013	0.16 U	0.73 I	21	0.28 U	0.18 U	0.97 I
DPT0203	8 to 12	03/20/2013	0.16 U	0.81 I	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.68 I	2.1	0.28 U	0.18 U	0.13 U
	26 to 30		**40 U**	**130 I**	**490**	70 U	**45 U**	**32.5 U**
	31 to 35		0.16 U	0.22 U	1.3	0.28 U	0.18 U	0.13 U
	36 to 40		**40 U**	**4,000**	**18,000**	**230 I**	**45 U**	**5,800**
	41 to 45		**40 U**	**2,400**	**12,000**	70 U	**45 U**	**1,900**
	56 to 60		0.16 U	**5.5**	21	0.28 U	0.18 U	**2.7**
DPT0204	8 to 12	03/20/2013	**40 U**	**55 U**	50 U	70 U	**45 U**	**32.5 U**
	16 to 20		**40 U**	**55 U**	50 U	70 U	**45 U**	**32.5 U**
	21 to 25		**40 U**	**55 U**	50 U	70 U	**45 U**	**32.5 U**
	26 to 30		**40 U**	**55 U**	50 U	70 U	**45 U**	**32.5 U**
	31 to 35	03/21/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	2.3	0.28 U	0.18 U	**1.8**
	41 to 45		0.16 U	0.22 U	0.66 I	0.28 U	0.18 U	1
	56 to 60		0.16 U	0.52 I	0.2 U	0.28 U	0.18 U	0.13 U
DPT0205	8 to 12	03/21/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.55 I
	41 to 45		**8 U**	**370**	**760**	14 U	9 U	**6.5 U**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0206	8 to 12	03/21/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0207	8 to 12	03/21/2013	1.6 U	**79**	**120 J,L**	2.8 U	1.8 U	**28 J,L**
	16 to 20		**40 U**	**760**	**10,000**	70 U	**45 U**	**1,100**
	21 to 25		0.16 U	2.5	**5,900 L**	**320 L**	**40**	**3,700 L**
	26 to 30		**40 U**	**55 U**	**510 J,L**	70 U	**45 U**	**960 J,L**
	31 to 35		**40 U**	**55 U**	**4,400 J,L**	70 U	**45 U**	**5300 J,L**
	36 to 40		1.6 U	2.2 U	47 J,L	2.8 U	1.8 U	**290 J,L**
	41 to 45		0.16 U	0.22 U	3.6	0.28 U	0.18 U	**2.9**
	56 to 60		0.16 U	0.22 U	6.4	0.28 U	0.18 U	1.3
DPT0208	8 to 12	03/21/2013	0.16 U	0.22 U	1.3	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	**10**
	21 to 25		**8 U**	**11 U**	10 U	14 U	9 U	**2,400**
	26 to 30		0.8 U	1.1 U	1 U	9.6	0.9 U	**1,000**
	31 to 35		0.8 U	1.1 U	1 U	1.4 U	0.9 U	**1,600 L**
	36 to 40	03/22/2013	1.6 U	**13**	21	2.8 U	1.8 U	**7.5 I**
	41 to 45		0.16 U	0.22 U	2.8	0.28 U	0.18 U	**24**
	56 to 60		0.16 U	2.3	5	0.28 U	0.18 U	**3.5**
DPT0209	8 to 12	03/22/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		**16 U**	**39 J**	20 U	28 U	**18 U**	**110**
	41 to 45		**16 U**	**36 I**	20 U	28 U	**18 U**	**460**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	1.2

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0210	8 to 12	03/22/2013	0.16 U	0.43 I	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.35 I	4.5	0.28 U	0.18 U	1
	26 to 30		0.16 U	**4.4**	1.1	0.28 U	0.18 U	0.27 I
	31 to 35		**8 U**	**56**	**160**	60	9 U	**130**
	36 to 40		**8 U**	**3,800**	**21,000 L**	**300**	9 U	**6,200**
	41 to 45		**8 U**	**3,900**	**11,000 L**	**180**	**58**	**2,100**
	56 to 60		0.16 U	**7.3**	26	0.28 U	0.18 U	**1.7**
DPT0211	8 to 12	03/22/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20	03/25/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		**80 U**	**110 U**	**3,800**	140 U	**90 U**	**2,000**
	41 to 45		**40 U**	**1,100**	**6,900**	70 U	**45 U**	**2,200**
	56 to 60		0.16 U	**5.5**	38	0.28 U	0.18 U	**6.4**
DPT0212	8 to 12	03/25/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 I	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.9 I	0.18 U	**58**
	41 to 45		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	**8.9**
	56 to 60		0.16 U	2.8	6.9	0.28 U	0.18 U	0.84 I
DPT0213	8 to 12	03/25/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.78 I	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.85 I	1	0.28 U	0.18 U	0.13 U
	31 to 35		0.80 U	1.1 U	**340**	**140**	0.9 U	**210**
	36 to 40		**160 U**	**9,700**	**30,000**	**280 U**	**180 U**	**9,900**
	41 to 45		**40 U**	**330**	**7,300**	70 U	**45 U**	**2,500**
	56 to 60		0.16 U	**27**	**150**	2.2	0.18 U	**20**
	66 to 70	03/26/2013	0.16 U	**8.5**	37	0.28 U	0.18 U	**1.6**
DPT0214	8 to 12	03/25/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	**36**
	21 to 25		**8 U**	**11 U**	**4,500**	14 U	9 U	**6,400**
	26 to 30		**8 U**	**11 U**	**230**	14 U	9 U	**1,900**
	31 to 35		0.32 U	1.9 I	2.8	0.56 U	0.36 U	**3.8**
	36 to 40		1.8 I	3	6.5	0.56 U	0.36 U	**6.7**
	41 to 45		**16 U**	**22 U**	**1,700**	**5,600**	**18 U**	**470**
	56 to 60		0.16 U	**10**	70	0.28 U	0.18 U	**9.2**
	66 to 70	03/26/2013	0.16 U	1.7	7.4	0.28 U	0.18 U	1.3
DPT0215	8 to 12	03/26/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		0.32 U	0.44 U	**230**	3.7	0.36 U	**67**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0216	8 to 12	03/26/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		1.6 U	2.2 U	**160**	2.8 U	1.8 U	**110**
	26 to 30		1.6 U	**240**	2 U	2.8 U	1.8 U	1.3 U
	31 to 35		**40 U**	**130 I**	**640**	70 U	**45 U**	**120 I**
	36 to 40		**160 U**	**26,000**	**34,000**	**280 U**	**180 U**	**7,200**
	41 to 45		**40 U**	**4,400**	**15,000**	70 U	**45 U**	**1,800**
	56 to 60		0.16 U	**62**	**110**	1.6	0.18 U	**6.3**
	66 to 70	03/27/2013	0.16 U	**19**	22	1.7	0.18 U	**1.5**
DPT0217	8 to 12	03/26/2013	0.16 U	0.22 U	1.4	0.28 U	0.18 U	**5.9**
	16 to 20		**8 U**	11 U	**5,800**	**170**	9 U	**440**
	21 to 25		**160 U**	**7,700**	**68,000**	**1,600**	**180 U**	**1,200**
	26 to 30		**40 U**	**2,100**	**4,900**	**1,400**	**45 U**	**2,200**
	31 to 35		**40 U**	**2,100**	**4,500**	**740**	**6,800**	**8,200**
	36 to 40		**16 U**	**85 I**	**2,900**	28 U	**18 U**	**2,100**
	41 to 45		0.16 U	**23**	38	0.28 U	0.18 U	**2.4**
	56 to 60		**16 U**	**1,400**	**6,000**	55 I	**18 U**	**260**
	66 to 70	03/27/2013	0.16 U	**8.5**	5.9	0.28 U	0.18 U	0.13 U
DPT0218	8 to 12	03/27/2013	0.16 U	0.22 U	1.1	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	1.1
	21 to 25		0.16 U	2	13	1.9	0.18 U	**18**
	26 to 30		**8 U**	**11 U**	10 U	14 U	9 U	**1,500**
	31 to 35		**8 U**	**23 I**	**120**	14 U	9 U	**6.5 U**
	36 to 40		**8 U**	**290**	**330**	14 U	9 U	**110**
	41 to 45		0.16 U	**61**	**88**	2.3	0.18 U	**12**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0219	8 to 12	03/27/2013	0.16 U	3.1	5.4	0.28 U	0.18 U	1.2
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	**150**	**270**	0.28 U	0.18 U	**57**
	26 to 30		**8 U**	**27 I**	35 I	14 U	9 U	**6.5 U**
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0220	8 to 12	03/27/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	1.5	0.18 U	0.13 U
	21 to 25		0.16 U	0.85 I	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		**8 U**	**680**	**590**	76	**150**	**83**
	31 to 35		0.16 U	0.22 U	2.1	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		**8 U**	**1,400**	**4,300**	**100**	9 U	**1,000**
	56 to 60		0.16 U	**12**	23	0.28 U	0.18 U	**2.1**
	66 to 70		0.16 U	**6.5**	14	1.5	0.18 U	1.1
DPT0221	8 to 12	03/28/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	**9.6**	21	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		**8 U**	**11 U**	**1,500**	14 U	9 U	**1,200**
	56 to 60		0.16 U	0.22 U	4.5	0.28 U	0.18 U	1.4

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0222	8 to 12	03/28/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	1.2	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.71 I	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		**8 U**	**11 U**	10 U	14 U	9 U	**32 I**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0223	8 to 12	03/28/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0224	8 to 12	03/28/2013	0.16 U	**11**	9.8	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		**8 U**	**230**	**380**	81	9 U	**260**
	31 to 35	03/29/2013	**16 U**	**54 I**	64 I	28 U	**18 U**	**13 U**
	36 to 40		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	41 to 45		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0225	8 to 12	03/29/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		**8 U**	**53**	10 U	14 U	9 U	**6.5 U**
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		**16 U**	**57 I**	**980**	87 I	**18 U**	**210**
	36 to 40		**160 U**	**37,000**	**40,000**	**800 I**	**180 U**	**4,400**
	41 to 45		**40 U**	**1,800**	**4,400**	70 U	**45 U**	**620**
	56 to 60		0.16 U	**16**	14	1.7	0.18 U	**2.6**
	66 to 70		0.16 U	**12**	8.4	0.28 U	0.18 U	0.57 I
DPT0226	8 to 12	04/01/2013	0.16 U	1.9	26	0.86 I	0.18 U	1.2
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	3.3	3.6	0.28 U	0.18 U	**2.2**
	36 to 40		**16 U**	**44 I**	**4,200**	**170**	**18 U**	**670**
	41 to 45		**40 U**	**1,000**	**6,900**	**260**	**45 U**	**480**
	46 to 50	05/23/2013	2.3 U	**32**	**1,700**	37	3.0 U	**140**
	56 to 60	04/01/2013	0.16 U	0.62 I	0.2 U	0.28 U	0.18 U	0.13 U
DPT0227	8 to 12	04/01/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.83 I	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	2.3	1.3	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	**95**	0.54 I	0.18 U	**10**
	36 to 40		**16 U**	**22 U**	**1,100**	57 I	**18 U**	**970**
	41 to 45		**16 U**	**42 I**	**8,200**	**210**	**18 U**	**1,600**
	46 to 50	05/29/2014	**12 U**	**9.5 U**	**1,900**	37 I	**15 U**	**1,300**
	56 to 60	04/01/2013	0.16 U	**3.6**	51	1.2	0.18 U	**5.3**
DPT0228	8 to 12	04/01/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20	04/01/2013	0.16 U	0.54 I	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25	04/01/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30	04/01/2013	0.16 U	**6.1**	2.3	0.28 U	0.18 U	0.13 U
	31 to 35	04/01/2013	0.16 U	1.1	1	0.62 I	0.18 U	**1,000**
	36 to 40	04/01/2013	**8 U**	**11 U**	**130**	31 I	9 U	**1,000**
	41 to 45	04/01/2013	**16 U**	**76 I**	**300**	28 U	**18 U**	**2,900**
	46 to 50	05/22/2013	0.23 U	**2,600**	**8,100**	**300**	**12.2**	**760**
	56 to 60	04/01/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	**4.6**
DPT0229	8 to 12	04/01/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20	04/02/2013	0.16 U	0.81 I	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25	04/02/2013	0.16 U	0.53 I	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35	04/02/2013	0.16 U	0.22 U	7.4	2.3	0.18 U	**19**
	36 to 40	04/02/2013	**8 U**	**11 U**	**2,500**	71	9 U	**290**
	41 to 45	04/02/2013	**8 U**	**11 U**	**1,900**	55	9 U	**150**
	46 to 50	06/03/2013	**23 U**	**540**	**3,900**	**150**	**30 U**	**420**
	56 to 60	4/2/2013	0.16 U	0.22 U	11	0.28 U	0.18 U	**2.1**
DPT0230	8 to 12	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20	04/02/2013	0.16 U	1.5	0.81 I	0.28 U	0.18 U	0.13 U
	21 to 25	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40	04/02/2013	0.16 U	0.22 U	0.2 U	0.58 I	0.18 U	**1.7**
	41 to 45	04/02/2013	1.6 U	2.2 U	13	2.8 U	1.8 U	**37**
	46 to 50	05/23/2013	0.23 U	**10.2**	**810**	28.6	1	**94.5**
	56 to 60	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0231	8 to 12	04/02/2013	0.16 U	**3.5**	1.4	0.28 U	0.18 U	0.13 U
	16 to 20	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30	04/02/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35	04/02/2013	0.16 U	0.22 U	0.2 U	1.2	0.18 U	0.82 I
	36 to 40	04/02/2013	**8 U**	**11 U**	**2,600**	78	9 U	**1,100**
	41 to 45	04/02/2013	**8 U**	**650**	**9,900**	**290**	9 U	**910**
	46 to 50	05/23/2013	0.23 U	**990**	**6,100**	**200**	6.3	**590**
	56 to 60	04/02/2013	0.16 U	1.2	7.2	0.28 U	0.18 U	**2.2**
DPT0232	8 to 12	04/03/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		1.6 U	**3.9 I**	**180**	2.8 U	1.8 U	**280**
	36 to 40		1.6 U	**8.6 I**	**230**	7.9 I	1.8 U	**250**
	41 to 45		**8 U**	**24 I**	**810**	26 I	9 U	**210**
	56 to 60		0.16 U	0.22 U	1.2	0.28 U	0.18 U	0.61 I
DPT0233	8 to 12	04/03/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	1.4	1.1	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		**16 U**	**83 I**	20 U	28 U	**18 U**	**37 I**
	41 to 45		**16 U**	**28 I**	**97 I**	28 U	**18 U**	**600**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0234	8 to 12	04/03/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	2.2	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	4.5	0.18 U	**46**
	36 to 40		1.6 U	2.2 U	**360**	20	1.8 U	**700**
	41 to 45		**8 U**	**11 U**	**2,400**	50	9 U	**800**
	56 to 60		0.16 U	0.22 U	4.8	0.28 U	0.18 U	**1.6**
DPT0235	8 to 12	04/03/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20	04/04/2013	0.16 U	0.22 U	0.77 I	0.28 U	0.84 I	0.13 U
	21 to 25		0.16 U	0.22 U	0.69 I	0.28 U	1.1	1.2
	26 to 30		0.16 U	0.22 U	0.89 I	0.28 U	0.65 I	0.13 U
	31 to 35		0.16 U	0.22 U	7.4	0.64 I	0.18 U	**120**
	36 to 40		1.6 U	2.2 U	25	5.7 I	1.8 U	**470**
	41 to 45		1.6 U	2.2 U	2 U	18	1.8 U	**1,000**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0236	8 to 12	04/04/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		1.6 U	2.2 U	19	14	1.8 U	**480**
	41 to 45		**8 U**	**11 U**	**5,200**	**120**	9 U	**2,200**
	46 to 50	06/03/2013	**23 U**	**490**	**7,000**	**120**	**30 U**	**1,200**
	56 to 60	04/04/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	**5.5**
DPT0237	8 to 12	04/05/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.65 I
	21 to 25		0.16 U	0.22 U	0.81 I	0.28 U	0.18 U	0.6 I
	26 to 30		0.16 U	0.22 U	0.94 I	0.28 U	0.18 U	0.45 I
	31 to 35		1.6 U	2.2 U	2 U	2.8 U	1.8 U	**110**
	36 to 40		1.6 U	2.2 U	19	16	1.8 U	**1,900**
	41 to 45		1.6 U	2.2 U	2 U	13	1.8 U	**1,300**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.7 I
DPT0238	8 to 12	04/05/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.85 I	0.28 U	2.2	0.13 U
	21 to 25		0.16 U	0.22 U	0.9 I	0.28 U	2	0.13 U
	26 to 30		0.16 U	0.22 U	0.76 I	0.28 U	0.18 U	0.41 I
	31 to 35		1.6 U	2.2 U	2 U	2.8 U	1.8 U	**5.2 I**
	36 to 40		1.6 U	2.2 U	9.7 I	2.8 U	1.8 U	**38**
	41 to 45		1.6 U	2.2 U	2 U	2.8 U	1.8 U	**89**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0239	8 to 12	04/05/2013	0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	16 to 20		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	21 to 25		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	26 to 30		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	31 to 35		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
	36 to 40		1.6 U	2.2 U	2 U	2.8 U	1.8 U	**540**
	41 to 45		0.16 U	0.22 U	3.7	0.28 U	0.18 U	**62**
	56 to 60		0.16 U	0.22 U	0.2 U	0.28 U	0.18 U	0.13 U
DPT0240	8 to 12	05/20/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.41 I	0.29 U	0.30 U	0.45 I
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	1
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.31 I
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0241	8 to 12	05/20/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0242	16 to 20	05/20/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	2.6	0.29 U	0.30 U	0.28 I
	36 to 40		0.23 U	0.19 U	3.6	1.6	0.30 U	**8.9**
	41 to 45		**12 U**	**18 I**	**3,300**	**310**	**16 I**	**3,400**
	46 to 50		**12 U**	**1,800**	**5,200**	**190**	**15 U**	**420**
	56 to 60		0.23 U	**9.5**	30.8	0.88 I	0.30 U	**1.9**
	66 to 70	05/21/2013	0.23 U	1	3.2	0.29 U	0.30 U	0.26 U
DPT0243	16 to 20	05/21/2013	0.23 U	0.19 U	0.44 I	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	1.5	1.4	1.3	0.30 U	0.92 I
	31 to 35		**12 U**	**9.5 U**	**560**	63	**15 U**	**1,100**
	36 to 40		**12 U**	**9.5 U**	**2,600**	86	**15 U**	**510**
	41 to 45		**12 U**	**130**	**4,900**	**140**	**15 U**	**330**
	46 to 50		**12 U**	**480**	**3,700**	**110**	**15 U**	**270**
	56 to 60		0.23 U	0.19 U	2.3	0.29 U	0.30 U	0.26 U
DPT0244	16 to 20	05/21/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.62 I	0.30 U	0.26 U
	36 to 40		**12 U**	**25 I**	**5,000**	**120**	**15 U**	**990**
	41 to 45		**23 U**	**1,100**	**9,000**	**240**	**30 U**	**840**
	46 to 50		**12 U**	**1,100**	**5,700**	**180**	**15 U**	**590**
	56 to 60		1.2 U	**11**	**110**	3.0 I	1.5 U	**10**
	66 to 70	05/23/2013	0.23 U	0.74 I	7.4	0.29 U	0.30 U	0.58 I
DPT0245	16 to 20	05/21/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30	05/22/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1.5**
	36 to 40		0.23 U	0.19 U	0.22 U	11	0.30 U	**2,400**
	41 to 45		0.23 U	**110**	**760**	31.2	5.4	**1,300**
	46 to 50		0.23 U	**110**	**1,300**	44.2	5.1	**940**
	56 to 60		0.23 U	0.19 U	12.4	0.33 I	0.30 U	**6.5**
DPT0246	8 to 12	05/22/2013	0.23 U	0.19 U	1.1	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	1.4	4.9	0.29 U	0.30 U	0.33 I
	21 to 25		0.23 U	0.45 I	1.8	0.29 U	0.30 U	0.41 I
	26 to 30		0.23 U	0.19 U	0.80 I	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.51 I	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.45 I	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.35 I	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0247	8 to 12	05/22/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	16 to 20		**23 U**	**19 U**	**12,000**	**430**	**30 U**	**1,200**
	21 to 25		**120 U**	**450 I**	**53,000**	**2,300**	**150 U**	**3,200**
	26 to 30		**12 U**	**16 I**	**2,800**	**250**	**15 U**	**2,600**
	31 to 35		**23 U**	**5,100**	**10,000**	**170**	**30 U**	**580**
	36 to 40		**230 U**	**81,000**	**55,000**	**580 I**	**300 U**	**5,800**
	41 to 45		**23 U**	**19,000**	**15,000**	**110**	**30 U**	**1,500**
	56 to 60		2.3 U	**750**	**920**	9.0 I	3.0 U	**34**
	66 to 70	05/23/2013	0.23 U	**28.2**	20.4	0.29 U	0.30 U	1
DPT0248	8 to 12	05/22/2013	0.23 U	0.41 I	0.64 I	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	1.2	1.5	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	**9.2**	6.3	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.47 I	0.31 I	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	3	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	2.3	1.5	0.29 U	0.30 U	0.26 U
DPT0249	8 to 12	05/23/2013	0.23 U	0.19 U	0.63 I	0.29 U	0.30 U	0.45 I
	16 to 20		0.23 U	0.55 I	3.4	0.29 U	0.30 U	**23.5**
	21 to 25		0.23 U	0.53 I	2.3	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.66 I	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0250	8 to 12	05/23/2013	0.23 U	0.19 U	0.40 I	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.64 I	0.29 U	0.30 U	**2.3**
	36 to 40		0.23 U	0.19 U	0.22 U	0.47 I	0.30 U	**23.8**
	41 to 45		0.23 U	1.1	**2,100**	58.8	3.7	**1,200**
	56 to 60		0.23 U	0.19 U	6.8	0.29 U	0.30 U	**3.4**
DPT0251	8 to 12	05/23/2013	0.23 U	0.19 U	1	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.54 I	2.4	0.29 U	0.30 U	**1.9**
	21 to 25		0.23 U	0.19 U	0.54 I	0.29 U	0.30 U	1.2
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	7.7	0.30 U	**97.5**
	36 to 40		0.23 U	0.19 U	0.22 U	33.9	0.30 U	**570**
	41 to 45		0.23 U	0.19 U	1.5	0.59 I	0.30 U	**7.2**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0252	8 to 12	05/24/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.92 I	0.29 U	0.30 U	0.48 I
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0253	16 to 20	06/03/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.30 I
	31 to 35		0.23 U	0.19 U	0.22 U	3.9	0.30 U	**160**
	36 to 40		**23 U**	**19 U**	**3,200**	**100**	**30 U**	**2,000**
	41 to 45		**23 U**	**200**	**7,300**	**190**	**30 U**	**1,000**
	46 to 50		**23 U**	**630**	**4,400**	**150**	**30 U**	**640**
	56 to 60		0.23 U	0.19 U	2.4	0.29 U	0.30 U	0.30 I
DPT0254	16 to 20	06/03/2013	0.23 U	0.19 U	1.1	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	5.2	0.30 U	**58.2**
	41 to 45		0.23 U	0.19 U	0.22 U	12.7	0.30 U	**660**
	46 to 50		2.3 U	2.3 I	**1,400**	40	3.0 U	**1,200**
	56 to 60		0.23 U	0.19 U	0.62 I	0.29 U	0.30 U	**1.5**
DPT0255	16 to 20	06/03/2013	0.23 U	0.19 U	0.23 I	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.45 I
	41 to 45		0.23 U	0.19 U	0.36 I	0.29 U	0.30 U	**16**
	46 to 50	06/04/2013	0.23 U	0.19 U	1.5	0.29 U	0.30 U	**13.5**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0256	16 to 20	06/04/2013	0.23 U	0.19 U	0.64 I	0.29 U	2.5	0.26 U
	21 to 25		0.23 U	0.19 U	1.4	0.29 U	0.63 I	0.29 I
	26 to 30		0.23 U	0.19 U	0.43 I	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	18.1	0.29 U	0.30 U	**5**
	36 to 40		0.23 U	0.19 U	12.7	0.29 U	0.30 U	**3.1**
	41 to 45		0.23 U	0.19 U	14.1	0.29 U	0.30 U	**13**
	46 to 50		0.23 U	0.19 U	4	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0257	16 to 20	06/04/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.29 I	7	0.29 U	0.30 U	0.88 I
DPT0258	31 to 35	06/04/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	2.2	**93**	5.7	0.30 U	**76.4**
	41 to 45		**23 U**	**19 U**	**2,100**	95 I	**30 U**	**500**
	46 to 50		**12 U**	**66**	**900**	68	**15 U**	**76**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0259	31 to 35	06/04/2013	0.23 U	0.19 U	0.66 I	0.42 I	0.30 U	**3.4**
	36 to 40	06/05/2013	0.23 U	0.19 U	1.4	6.2	0.30 U	**600**
	41 to 45		2.3 U	**31**	**690**	29	3.0 U	**1,800**
	46 to 50		4.6 U	**160**	**1,400**	37	6.0 U	**930**
	56 to 60		0.23 U	0.19 U	0.31 I	0.29 U	0.30 U	0.26 U
DPT0260	16 to 20	06/05/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.44 I	0.29 U	0.30 U	**1.9**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0261	8 to 12	06/19/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	1.2	13.2	0.73 I	0.30 U	**60.3**
	36 to 40		**12 U**	**9.5 U**	**1,000**	15 U	**15 U**	**4,600**
	41 to 45		1.2 U	0.95 U	**180**	2.4 I	1.5 U	**1,400**
	56 to 60		0.23 U	0.19 U	1.6	0.29 U	0.30 U	**5**
DPT0262	8 to 12	06/19/2013	0.23 U	0.19 U	0.70 I	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1.7**
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**11.5**
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**97.1**
	31 to 35		1.2 U	0.95 U	1.1 U	1.5 U	1.5 U	**120**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.1**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0263	31 to 35	06/19/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.43 I	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.49 I	1.6	0.30 U	**5.6**
	46 to 50		1.2 U	0.95 U	53	4.5 I	1.5 U	**170**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0264	31 to 35	06/20/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.48 I	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.25 I	0.74 I	0.30 U	**2.8**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0265	8 to 12	06/20/2013	0.23 U	0.19 U	0.66 I	0.29 U	0.30 U	**1.8**
	16 to 20		0.23 U	0.19 U	1.6	0.29 U	0.30 U	**7**
	21 to 25		0.23 U	0.19 U	0.49 I	0.29 U	0.30 U	**11.2**
	26 to 30		0.46 U	0.38 U	0.44 U	0.58 U	0.60 U	**110**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**4.8**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**26.8**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3.6**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0266	8 to 12	06/20/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	16 to 20		0.23 U	0.19 U	1	0.29 U	0.30 U	1.0
	21 to 25		0.23 U	0.19 U	0.31 I	0.29 U	0.30 U	**12.2**
	26 to 30		1.2 U	0.95 U	1.1 U	1.5 U	1.5 U	**18**
	31 to 35	06/21/2013	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**29.2**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**14.1**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**5.6**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0267	16 to 20	06/21/2013	0.23 U	0.19 U	8.9	0.29 U	0.30 U	**140**
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0268	31 to 35	05/28/2014	0.23 U	0.19 U	0.64 I	2.9	0.30 U	**68**
	36 to 40		0.23 U	0.19 U	5.4	19.9	0.30 U	**2,100**
	41 to 45		0.23 U	0.19 U	34.2	22.1	0.30 U	**1,800**
	46 to 50		0.23 U	0.19 U	20.3	5.5	0.30 U	**370**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	1.2
DPT0269	36 to 40	05/28/2014	**46 U**	38 U	**5,700**	190 I	**60 U**	**920**
	41 to 45		**23 U**	**1,200**	**8,100**	**280**	**30 U**	**610**
	46 to 50		**12 U**	**9.5 U**	**2,000**	70	**15 U**	**160**
	56 to 60		0.23 U	0.28 I	19.3	0.36 I	0.30 U	**2.1**
DPT0270	36 to 40	05/28/2014	0.23 U	**4.1**	**860**	24.6	1.4	**450**
	41 to 45		**23 U**	**100**	**7,100**	**180**	**30 U**	**1,100**
	46 to 50		**23 U**	**270**	**4,300**	**140**	**30 U**	**280**
	56 to 60		0.23 U	0.19 U	2.2	0.29 U	0.30 U	0.67 I
DPT0271	36 to 40	05/28/2014	0.23 U	0.19 U	0.35 I	6.4	0.30 U	**160**
	41 to 45		0.23 U	0.19 U	0.22 U	19.9	0.30 U	**4,500**
	46 to 50		**12 U**	**9.5 U**	**2,400**	51	**15 U**	**2,500**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0272	36 to 40	05/28/2014	0.23 U	0.19 U	54.1	13.2	0.30 U	**1,300**
	41 to 45		0.23 U	0.68 I	**690**	22.3	1.3	**1,400**
	46 to 50		**23 U**	**340**	**4,800**	**140**	**30 U**	**1,200**
	56 to 60		0.23 U	0.19 U	0.54 I	0.29 U	0.30 U	1.4
DPT0273	36 to 40	05/29/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.56 I	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	12	2.6	0.30 U	**67.8**
	56 to 60		0.23 U	0.19 U	0.24 I	0.29 U	0.30 U	0.59 I
DPT0274	31 to 35	05/29/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.64 I
	36 to 40		0.23 U	0.19 U	0.22 U	1.9	0.30 U	**7.8**
	41 to 45		0.23 U	0.19 U	2.1	5.5	0.30 U	**530**
	46 to 50		4.6 U	3.8 U	**1,400**	38	6.0 U	**870**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0275	36 to 40	05/29/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.43 I	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.30 I	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0276	31 to 35	05/29/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.34 I	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	2.5	2.8	0.30 U	**25.7**
	46 to 50		0.23 U	0.81 I	**110**	7.1	0.30 U	**100**
	56 to 60		0.23 U	0.19 U	1.1	0.29 U	0.30 U	0.75 I
DPT0277	36 to 40	05/30/2014	0.23 U	0.19 U	0.90 I	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.85 I	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	3.1	0.29 U	1	1
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0278	26 to 30	05/30/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**17.3**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1.8**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1.7**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0279	26 to 30	05/30/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**32.4**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**29.8**
	36 to 40		0.23 U	0.19 U	0.40 I	1.1	0.30 U	**110**
	41 to 45		0.23 U	0.19 U	1.7	1.3	0.30 U	**100**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.6**
DPT0280	21 to 25	05/30/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1.6**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**74.9**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**31.9**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**7.4**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.93 I

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0281	26 to 30	06/02/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.35 I
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0282	21 to 25	06/02/2014	0.23 U	0.19 U	0.30 I	0.29 U	0.30 U	**10.7**
	26 to 30		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**7.2**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**49.6**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**26.5**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**16.5**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0283	26 to 30	06/02/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**6.1**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**29.6**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**58.2**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**33.5**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.8**
DPT0284	26 to 30	06/02/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**10.2**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**75**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**35.5**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**4.1**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0285	31 to 35	06/03/2014	0.23 U	0.19 U	7	0.29 U	0.30 U	**48**
	36 to 40		0.23 U	0.19 U	49.5	1.1	0.30 U	**170**
	41 to 45		0.23 U	0.19 U	5.3	0.74 I	0.30 U	**100**
	46 to 50		0.23 U	0.19 U	0.93 I	0.29 U	0.30 U	**22.6**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0286	26 to 30	06/03/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**33.1**
	31 to 35		0.23 U	0.19 U	0.62 I	0.29 U	0.30 U	**36.8**
	36 to 40		0.23 U	0.19 U	0.83 I	0.29 U	0.30 U	**63.2**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**5.7**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	1.2
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0287	26 to 30	06/03/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.89 I
	31 to 35		0.23 U	0.19 U	0.28 I	0.29 U	0.30 U	**9.6**
	36 to 40		0.23 U	0.19 U	2.3	0.29 U	0.30 U	**65.4**
	41 to 45		0.23 U	0.19 U	0.83 I	0.29 U	0.30 U	**71.1**
DPT0288	26 to 30	06/03/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**1.7**
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.2**
	36 to 40		0.23 U	0.19 U	12.1	0.34 I	0.30 U	**24.5**
	41 to 45		0.23 U	0.19 U	**140**	1.3	0.30 U	**40.6**
DPT0289	8 to 12	06/03/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	1.2
	16 to 20		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25	06/04/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	0.58 I	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	40.8	3.5	0.30 U	**110**
	36 to 40		**12 U**	**9.5 U**	**2,600**	80	**15 U**	**550**
	41 to 45		**23 U**	**220**	**5,600**	**180**	**30 U**	**540**
	46 to 50		**12 U**	**190**	**2,700**	**110**	**15 U**	**320**
	56 to 60		0.23 U	0.19 U	0.28 I	0.29 U	0.30 U	0.26 U
DPT0290	31 to 35	06/04/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.51 I	0.34 I	0.30 U	**4.3**
	41 to 45		0.23 U	0.19 U	**120**	3.4	0.30 U	**58.1**
	46 to 50		4.6 U	3.8 U	**1,500**	51	6.0 U	**230**
	56 to 60		0.23 U	0.19 U	0.29 I	0.29 U	0.30 U	0.26 U
DPT0291	31 to 35	06/04/2014	4.6 U	3.8 U	**1,200**	45	6.0 U	**1,600**
	36 to 40		**23 U**	**37 I**	**4,900**	**140**	**30 U**	**1,100**
	41 to 45		**12 U**	**180**	**2,500**	92	**15 U**	**560**
	46 to 50		0.23 U	0.77 I	**210**	7.2	0.30 U	**63.3**
	56 to 60		0.23 U	0.19 U	1	0.29 U	0.30 U	0.28 I
DPT0292	31 to 35	06/04/2014	4.6 U	3.8 U	20 I	23	6.0 U	**1,700**
	36 to 40		4.6 U	3.8 U	25	28	6.0 U	**1,400**
	41 to 45		4.6 U	3.8 U	14 I	13 I	6.0 U	**1,100**
	46 to 50	06/05/2014	0.23 U	0.19 U	5.8	1	0.30 U	**25.4**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**4.3**
DPT0293	31 to 35	06/05/2014	0.23 U	0.19 U	0.22 U	0.47 I	0.30 U	0.53 I
	36 to 40		0.23 U	0.19 U	0.22 U	2.9	0.30 U	**37.6**
	41 to 45		2.3 U	1.9 U	27	3.6 I	3.0 U	**260**
	46 to 50		2.3 U	1.9 U	**100**	3.4 I	3.0 U	**100**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0294	16 to 20	06/05/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	34.8	0.66 I	0.30 U	**38.6**
	31 to 35		**46 U**	**190 I**	**8,400**	**110 I**	**60 U**	**2,200**
	36 to 40		0.23 U	0.19 U	58.6	0.74 I	0.30 U	**17.5**
	41 to 45		0.23 U	0.19 U	7.7	0.29 U	0.30 U	**1.8**
DPT0295	16 to 20	06/06/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	21 to 25		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	26 to 30		0.23 U	0.19 U	0.22 U	2.7	0.30 U	**8.3**
	31 to 35		**46 U**	**17,000**	**20,000**	**540**	**60 U**	**4,300**
	36 to 40		2.3 U	2.4 I	**370**	7.0 I	3.0 U	**150**
	41 to 45		0.23 U	**27.8**	**146**	3	0.30 U	**8.7**
DPT0296	31 to 35	06/06/2014	0.23 U	0.19 U	0.23 I	1.8	0.30 U	**21.3**
	36 to 40		2.3 U	1.9 U	31	10	3.0 U	**530**
	41 to 45		2.3 U	1.9 U	**560**	13	3.0 U	**150**
	46 to 50		4.6 U	3.8 U	**2,000**	63	6.0 U	**300**
	56 to 60	06/09/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0297	31 to 35	06/09/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	2.4	3.8	0.30 U	**100**
	41 to 45		2.3 U	1.9 U	**460**	13	3.0 U	**590**
	46 to 50		2.3 U	1.9 U	**180**	8.9 I	3.0 U	**460**
DPT0298	31 to 35	06/09/2014	2.3 U	**8.7 I**	**430**	14	3.0 U	**420**
	36 to 40		2.3 U	**3.8 I**	**1,300**	31	3.0 U	**430**
	41 to 45		4.6 U	3.8 U	**2,000**	49	6.0 U	**430**
	46 to 50		2.3 U	1.9 U	52	2.9 U	3.0 U	**63**
	56 to 60		0.23 U	0.19 U	1.6	0.29 U	0.30 U	0.26 U
DPT0299	31 to 35	06/09/2014	0.23 U	0.19 U	0.22 U	0.82 I	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	1.3	0.30 U	**44.3**
	41 to 45		0.23 U	0.19 U	0.33 I	1.7	0.30 U	**36.2**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0300	36 to 40	06/09/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60	06/10/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0301	36 to 40	06/10/2014	4.6 U	**15 I**	**1,000**	26	6.0 U	**670**
	41 to 45		4.6 U	3.8 U	**1,200**	26	6.0 U	**370**
	46 to 50		2.3 U	1.9 U	**180**	5.1 I	3.0 U	**130**
	56 to 60		0.23 U	0.19 U	1.2	0.29 U	0.30 U	0.26 U
DPT0302	41 to 45	06/10/2014	4.6 U	3.8 U	**1,300**	30	6.0 U	**250**

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0302	46 to 50	06/10/2014	2.3 U	1.9 U	**560**	14	3.0 U	**200**
DPT0303	36 to 40	06/10/2014	0.23 U	0.19 U	2.8	0.29 U	0.30 U	**21.9**
	41 to 45		0.23 U	0.19 U	**80.7**	1	0.30 U	**18.5**
	46 to 50		0.23 U	0.19 U	5.5	0.29 U	0.30 U	**2.8**
DPT0304	31 to 35	06/10/2014	0.23 U	0.19 U	2.1	0.29 U	0.30 U	**9.6**
	36 to 40		0.23 U	0.19 U	7.2	1.3	0.30 U	**90.7**
	41 to 45		0.23 U	0.19 U	1.6	1.7	0.30 U	**95.3**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.88 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0305	36 to 40	06/10/2014	0.23 U	0.19 U	13.2	0.29 U	0.30 U	**19.2**
	41 to 45		0.23 U	0.19 U	0.70 I	0.29 U	0.30 U	**8.9**
DPT0306	31 to 35	06/11/2014	1.2 U	0.95 U	**230**	1.5 U	1.5 U	**46**
	36 to 40		0.23 U	0.19 U	22.1	0.68 I	0.30 U	**66.2**
	41 to 45		0.23 U	0.19 U	0.26 I	0.29 U	0.30 U	**2.2**
DPT0307	26 to 30	06/11/2014	0.23 U	0.19 U	1.1	0.29 U	0.30 U	**1.6**
	31 to 35		0.23 U	0.19 U	12.6	0.29 U	0.30 U	**17.7**
	36 to 40		0.23 U	0.19 U	7.1	0.29 U	0.30 U	**31.6**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**28.2**
	46 to 50		0.23 U	0.19 U	0.33 I	0.29 U	0.30 U	**11.4**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0308	26 to 30	06/11/2014	0.23 U	0.19 U	4.8	0.29 U	0.30 U	**13.8**
	31 to 35		0.23 U	0.19 U	10.3	0.29 U	0.30 U	**20.3**
	36 to 40		0.23 U	0.19 U	21.7	0.29 U	0.30 U	**70.9**
	41 to 45		0.23 U	0.19 U	9.4	0.29 U	0.30 U	**59.9**
	46 to 50		0.23 U	0.19 U	0.36 I	0.29 U	0.30 U	**25**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0309	31 to 35	06/12/2014	0.23 U	0.19 U	0.22 U	1.4	0.30 U	0.53 I
	36 to 40		2.3 U	1.9 U	50	6.7 I	3.0 U	**450**
	41 to 45		2.3 U	1.9 U	**560**	20	3.0 U	**280**
	46 to 50		0.23 U	0.19 U	5.6	1.2	0.30 U	**45.2**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0310	31 to 35	06/12/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.42 I	0.30 U	0.46 I
	41 to 45		0.23 U	0.19 U	0.22 U	0.98 I	0.30 U	1.4
	46 to 50		0.23 U	0.19 U	0.22 U	0.63 I	0.30 U	0.86 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0311	31 to 35	06/12/2014	2.3 U	1.9 U	**280**	19	3.0 U	**770**
	36 to 40		4.6 U	3.8 U	**3,300**	87	6.0 U	**1,300**
	41 to 45		**12 U**	**9.5 U**	**4,400**	**120**	**15 U**	**710**
	46 to 50	06/13/2014	4.6 U	**51**	**1,900**	71	6.0 U	**490**
	56 to 60		0.23 U	0.24 I	12.9	0.31 I	0.30 U	**1.8**
DPT0312	31 to 35	06/13/2014	0.23 U	0.19 U	11.6	1.8	0.30 U	**145**
	36 to 40		0.23 U	0.19 U	26.4	2.2	0.30 U	**156**
	41 to 45		2.3 U	1.9 U	32	2.9 U	3.0 U	**270**
	46 to 50		2.3 U	1.9 U	13	2.9 U	3.0 U	**100**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0313	31 to 35	06/13/2014	0.23 U	0.19 U	0.83 I	0.29 U	0.30 U	**12.9**
	36 to 40		0.23 U	0.19 U	1.6	0.29 I	0.30 U	**19.6**
	41 to 45		0.23 U	0.19 U	1.5	0.29 U	0.30 U	**9.1**
	46 to 50		0.23 U	0.20 I	**180**	3.4	0.30 U	**27.4**
DPT0314	36 to 40	08/18/2014	0.23 U	0.19 U	31.2	3.3	0.30 U	**63.5**
	41 to 45		0.23 U	0.19 U	28	2.2	0.30 U	**63**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.45 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0315	36 to 40	08/18/2014	2.3 U	1.9 U	**650**	14	3.0 U	**290**
	41 to 45		4.6 U	3.8 U	**1,100**	18 I	6.0 U	**290**
	46 to 50		0.23 U	0.19 U	20.3	0.29 U	0.30 U	**3.2**
	56 to 60		0.23 U	0.19 U	34.1	0.37 I	0.30 U	**6.3**
DPT0316	36 to 40	08/18/2014	0.23 U	0.19 U	8	1.1	0.30 U	**72.7**
	41 to 45		0.23 U	0.19 U	21.9	0.29 U	0.30 U	**8.4**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0317	31 to 35	08/18/2014	0.23 U	0.19 U	30.7	12.9	0.30 U	**740**
	36 to 40		0.23 U	0.19 U	27.1	35.4	0.30 U	**1,900**
	41 to 45	08/19/2014	**12 U**	**10 U**	29 I	32 I	**15 U**	**2,800**
	46 to 50		0.23 U	0.19 U	6.4	1.1	0.30 U	**35**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.93 I
DPT0318	31 to 35	08/19/2014	**12 U**	**10 U**	11 U	15 U	**15 U**	**1,000**
	36 to 40		2.3 U	1.9 U	20	20	3.0 U	**1,300**
	41 to 45	08/22/2014	2.3 U	1.9 U	55	18.1	3.0 U	**1,800**
DPT0319	36 to 40	08/19/2014	0.23 U	0.19 U	1.2	0.63 I	0.30 U	**2.5**
	41 to 45		**12 U**	**10 U**	**2,200**	71	**15 U**	**630**
	46 to 50		**23 U**	**410**	**3,700**	**120**	**30 U**	**350**
	56 to 60		0.23 U	0.20 I	5.2	0.29 U	0.30 U	0.33 I
DPT0320	36 to 40	08/19/2014	4.6 U	3.8 U	13 I	5.8 U	6.0 U	**400**
	41 to 45		4.6 U	3.8 U	**460**	17 I	6.0 U	**980**
	46 to 50		4.6 U	3.8 U	**1,000**	29	6.0 U	**540**
	56 to 60		0.23 U	0.19 U	0.65 I	0.29 U	0.30 U	0.30 I
DPT0321	36 to 40	08/19/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.49 I
	41 to 45		4.6 U	**7.0 I**	**1,200**	33	6.0 U	**1,100**
	46 to 50		2.3 U	1.9 U	**310**	13	3.0 U	**380**
	56 to 60		0.23 U	0.19 U	6	0.29 U	0.30 U	1.4
DPT0322	36 to 40	08/20/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		4.6 U	3.8 U	63	5.8 U	6.0 U	**650**
	46 to 50		**12 U**	**10 U**	**1,600**	19 I	**15 U**	**680**
	56 to 60		0.23 U	0.19 U	0.28 I	0.29 U	0.30 U	0.26 U
DPT0323	36 to 40	08/20/2014	0.23 U	0.19 U	0.22 U	2.3	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.40 I	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	9.7	0.29 U	0.30 U	1.4
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0324	36 to 40	08/20/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.46 U	0.38 U	**110**	6.9	0.60 U	**130**
	46 to 50		**12 U**	**740**	**4,400**	**160**	**15 U**	**380**
	56 to 60		0.23 U	0.19 U	1.7	0.29 U	0.30 U	0.26 U
DPT0325	36 to 40	08/20/2014	0.23 U	0.19 U	1.4	0.29 U	0.30 U	0.26 U
	41 to 45		2.3 U	**60**	**1,200**	34	3.0 U	**860**
	46 to 50		4.6 U	**38**	**1,500**	29	6.0 U	**310**
DPT0326	36 to 40	08/20/2014	0.23 U	0.19 U	0.46 I	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		2.3 U	1.9 U	**200**	13	3.0 U	**1,000**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0327	36 to 40	08/21/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		**12 U**	**26 I**	**2,700**	69	**15 U**	**1,600**
	46 to 50		**12 U**	**130**	**2,900**	90	**15 U**	**1,100**
	51 to 55		1.2 U	1.6 I	**210**	4.6 I	1.5 U	**70**
	56 to 60		0.23 U	0.91 I	28.6	0.72 I	0.30 U	**8.7**

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0328	36 to 40	08/21/2014	0.46 U	0.38 U	2.6	2.5	0.60 U	**100**
	41 to 45		1.2 U	1.0 U	3.2 I	3.0 I	1.5 U	**160**
	46 to 50		0.23 U	0.19 U	42	5.9	0.30 U	**137.4**
	51 to 55		2.3 U	1.9 U	**1,000**	35	3.0 U	**120**
	56 to 60		0.23 U	0.19 U	0.82 I	0.29 U	0.30 U	0.66 I
DPT0329	36 to 40	08/21/2014	**12 U**	**10 U**	51	19 I	**15 U**	**2,500**
	41 to 45		**12 U**	**10 U**	40 I	18 I	**15 U**	**1,700**
	46 to 50		2.3 U	1.9 U	24	5.1 I	3.0 U	**420**
	51 to 55		0.46 U	0.38 U	7.3	1.0 I	0.60 U	**49**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.6**
DPT0330	36 to 40	08/21/2014	0.23 U	0.19 U	0.22 U	2.1	0.30 U	0.26 U
	41 to 45		2.3 U	1.9 U	**120**	8.2 I	3.0 U	**520**
	46 to 50		**12 U**	**10 U**	**270**	15 U	**15 U**	**870**
	51 to 55		2.3 U	1.9 U	**430**	11	3.0 U	**380**
	56 to 60		0.23 U	0.19 U	2.5	0.29 U	0.30 U	**7**
DPT0331	31 to 35	08/22/2014	**12 U**	**10 U**	56	16 I	**15 U**	**2,200**
	36 to 40		**12 U**	**10 U**	39 I	33 I	**15 U**	**2,500**
	41 to 45		4.6 U	3.8 U	10 I	5.8 I	6.0 U	**600**
	46 to 50		0.46 U	0.38 U	13	1.3 I	0.60 U	**47**
	56 to 60		0.23 U	0.19 U	0.28 I	0.29 U	0.30 U	**7.3**
DPT0332	31 to 35	08/22/2014	0.23 U	0.19 U	0.50 I	0.29 U	0.30 U	**1.9**
	36 to 40		0.23 U	0.19 U	0.35 I	1.4	0.30 U	**3.4**
	41 to 45		0.46 U	0.38 U	**110**	3.1	0.60 U	**88**
	46 to 50		2.3 U	1.9 U	**1,200**	29	3.0 U	**230**
	56 to 60		0.23 U	0.19 U	10	0.29 U	0.30 U	1.2
DPT0333	26 to 30	08/22/2014	0.23 U	0.19 U	18.9	0.29 U	0.30 U	**3.4**
	36 to 40		2.3 U	1.9 U	57	2.9 U	3.0 U	**24**
	41 to 45		0.23 U	0.19 U	22.9	0.29 U	0.30 U	**19.1**
	46 to 50		0.23 U	0.19 U	1.8	0.29 U	0.30 U	**21.2**
	56 to 60		0.23 U	0.19 U	0.37 I	0.29 U	0.30 U	0.26 U
DPT0334	31 to 35	08/23/2014	0.23 U	0.19 U	3.6	5.7	0.30 U	**1,300**
	36 to 40		0.23 U	0.19 U	3.7	9.2	0.30 U	**1,500**
	41 to 45		2.3 U	1.9 U	4.9 I	3.5 I	3.0 U	**530**
	46 to 50		2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**8.8 I**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3**
DPT0335	31 to 35	08/23/2014	2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**2.6 U**
	36 to 40		0.23 U	0.19 U	5.3	0.29 U	0.30 U	**13.4**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.79 I
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0336	26 to 30	08/23/2014	4.6 U	3.8 U	6.6 I	5.8 U	6.0 U	**1,500**
	31 to 35		4.6 U	3.8 U	4.4 U	13 I	6.0 U	**2,400**
	36 to 40		2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**140**
	41 to 45		2.3 U	1.9 U	2.2 U	2.9 U	3.0 U	**2.6 U**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.53 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3.4**
DPT0337	31 to 35	08/23/2014	0.23 U	0.19 U	3.3	0.29 U	0.30 U	**17.7**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45	08/24/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0338	26 to 30	08/24/2014	0.23 U	0.19 U	0.22 U	0.71 I	0.30 U	1.4
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0339	26 to 30	08/24/2014	4.6 U	3.8 U	4.4 U	5.8 U	6.0 U	**210**
	31 to 35		4.6 U	3.8 U	4.4 U	5.8 U	6.0 U	**700**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.79 I
DPT0340	31 to 35	09/22/2014	0.23 U	0.19 U	0.22 U	0.74 I	0.30 U	0.26 U
	36 to 40		4.6 U	3.8 U	**350**	14 I	6.0 U	**460**
	41 to 45		4.6 U	3.8 U	**320**	13 I	6.0 U	**450**
	46 to 50		1.2 U	0.95 U	4.5 I	1.5 U	1.5 U	**43.0**
	56 to 60		0.23 U	0.19 U	0.35 I	0.29 U	0.30 U	0.26 U
DPT0341	31 to 35	09/22/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	2.8	4.7	0.30 U	**100**
	41 to 45		**12 U**	**9.5 U**	**1,300**	28 I	**15 U**	**560**
	46 to 50		2.3 U	1.9 U	**140**	2.9 U	3.0 U	**36.0**
	51 to 55		0.23 U	0.19 U	4.7	0.33 I	0.30 U	**7.6**
	56 to 60	09/23/2014	0.23 U	0.19 U	22.3	0.44 I	0.30 U	**8.9**
DPT0342	31 to 35	09/23/2014	0.23 U	0.19 U	0.22 U	0.49 I	0.30 U	0.29 I
	36 to 40		0.23 U	0.19 U	0.22 U	1.3	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.74 I	0.30 U	**5.2**
	46 to 50		0.23 U	0.19 U	26.2	2.8	0.30 U	**120**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.77 I
DPT0343	31 to 35	09/23/2014	0.23 U	0.19 U	0.22 U	0.31 I	0.30 U	**3.0**
	36 to 40		0.23 U	0.19 U	0.36 I	0.32 I	0.30 U	**21.6**
	41 to 45		0.23 U	0.19 U	9.3	1.4	0.30 U	**81.4**
	46 to 50		0.23 U	0.19 U	18.4	0.63 I	0.30 U	**12.0**
	51 to 55	09/29/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.23 I	0.29 U	0.30 U	0.26 U
DPT0344	31 to 35	09/24/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		2.3 U	1.9 U	**100**	2.9 U	3.0 U	**26.0**
	41 to 45		0.23 U	0.19 U	3.3	0.49 I	0.30 U	**5.3**
	46 to 50		0.46 U	0.38 U	42.0	0.80 I	0.60 U	**29.0**
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.78 I	0.29 U	0.30 U	0.26 U
DPT0345	31 to 35	09/24/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	1.1
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.40 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0346	31 to 35	09/24/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	5.3	1.5	0.30 U	**26.0**
	41 to 45		0.23 U	0.19 U	1.8	0.29 U	0.30 U	**7.8**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	51 to 55		0.23 U	0.19 U	0.24 I	0.29 U	0.30 U	0.78 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0347	26 to 30	09/25/2014	0.23 U	0.19 U	1.8	0.29 U	0.30 U	**9.6**
	31 to 35		0.23 U	0.19 U	1.1	0.29 U	0.30 U	**3.7**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.7 I
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0348	31 to 35	09/25/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.90 I	0.29 U	0.30 U	0.26 U

DPT Sampling Results - Chlorinated Volatile Organic Compounds
Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Concentration (µg/L)					
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Groundwater Cleanup Target Level (µg/L)			**3**	**3**	**70**	**100**	**7**	**1**
Natural Attenuation Default Criteria (µg/L)			**300**	**300**	**700**	**1,000**	**70**	**100**
DPT0349	36 to 40	09/25/2014	0.23 U	0.19 U	8.9	0.45 I	0.30 U	**6.8**
	41 to 45		0.23 U	0.19 U	0.76 I	1.8	0.30 U	**21.0**
	46 to 50		0.23 U	0.19 U	0.49 I	0.29 U	0.30 U	**4.8**
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.62 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0350	31 to 35	09/26/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	1.6	0.29 U	0.30 U	**13.0**
	41 to 45		2.3 U	1.9 U	45.0	2.9 U	3.0 U	**160**
	46 to 50		4.6 U	3.8 U	**100**	5.8 U	6.0 U	**280**
	51 to 55		0.23 U	0.19 U	13.0	2.1	0.30 U	**260**
	56 to 60		0.23 U	0.19 U	0.88 I	0.29 U	0.30 U	**4.5**
DPT0351	31 to 35	09/26/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.42 I
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**35.0**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**53.2**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**50.6**
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.8**
DPT0352	31 to 35	09/26/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**110**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**73.3**
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**10.2**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**11.4**
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.98 I
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.44 I
DPT0353	26 to 30	09/29/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	31 to 35		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**100**
	41 to 45		0.23 U	0.19 U	0.25 I	0.29 U	0.30 U	**8.4**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**2.1**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0354	31 to 35	09/29/2014	0.36 U	0.43 I	1.6	0.32 U	0.35 U	**23.8**
	36 to 40		0.23 U	0.19 U	0.93 I	0.29 U	0.30 U	**22.4**
	41 to 45		1.2 U	0.95 U	1.8 I	1.5 U	1.5 U	**21.0**
	46 to 50		1.2 U	0.95 U	**230**	3.7 I	1.5 U	**55.0**
	51 to 55		0.23 U	0.19 U	4.7	0.29 U	0.30 U	**4.8**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0355	31 to 35	09/29/2014	0.23 U	0.19 U	1.9	0.29 U	0.30 U	**4.3**
DPT0356	31 to 35	09/30/2014	0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.31 U
	36 to 40		0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.31 U
	41 to 45		0.36 U	0.31 U	1.4	2.0	0.35 U	**64.0**
	46 to 50		0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.94 I
	51 to 55		0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.31 U
	56 to 60		0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.31 U
DPT0357	31 to 35	09/30/2014	0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.31 U
	36 to 40		0.36 U	0.31 U	0.74 I	0.32 U	0.35 U	**2.5**
	41 to 45		0.36 U	0.31 U	17.6	1.3	0.35 U	**90.0**
	46 to 50		0.36 U	0.31 U	3.5	0.32 U	0.35 U	**9.7**
	51 to 55		0.36 U	0.31 U	3.1	0.32 U	0.35 U	**2.2**
	56 to 60		0.36 U	0.31 U	0.28 U	0.32 U	0.35 U	0.31 U
DPT0358	26 to 30	11/10/2014	0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**210**
	31 to 35		0.23 U	0.19 U	1.5	0.29 U	0.30 U	**120**
	36 to 40		1.2 U	0.95 U	1.1 U	1.5 U	1.5 U	3.3 I
	41 to 45		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**26**
	46 to 50		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**12.9**
	51 to 55		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	**3**
	56 to 60		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.26 U
DPT0359	31 to 35	11/10/2014	0.23 U	0.19 U	20	3.1	0.30 U	**131**
	36 to 40		0.23 U	0.19 U	0.22 U	0.29 U	0.30 U	0.45 I
	41 to 45		0.23 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
	46 to 50		0.23 U	0.17 U	0.46 I	0.16 U	0.15 U	0.91 I
	51 to 55		0.23 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
	56 to 60	11/11/2014	1.2 U	0.85 U	0.80 U	0.80 U	0.75 U	0.80 U
DPT0360	36 to 40	11/11/2014	1.2 U	0.85 U	3.4 I	0.80 U	0.75 U	3.8 I
	41 to 45		1.2 U	0.85 U	6.5	0.80 U	0.75 U	**47**
	46 to 50		1.2 U	0.85 U	2.4 I	1.3 I	0.75 U	**130**
	51 to 55		0.23 U	0.17 U	0.16 U	0.16 U	0.15 U	0.16 U
	56 to 60		2.3 U	1.7 U	1.6 U	1.6 U	1.5 U	1.6 U
DPT0361	31 to 35	11/11/2014	0.23 U	0.17 U	1.7	0.16 U	0.15 U	0.56 I
	36 to 40		0.23 U	0.17 U	3	0.16 U	0.15 U	0.66 I
	41 to 45		0.23 U	0.17 U	8	0.16 U	0.15 U	1.2
	46 to 50		0.23 U	0.17 U	7.2	0.16 U	0.15 U	1.2
	51 to 55		0.23 U	0.17 U	7.9	0.16 U	0.15 U	**7.1**
	56 to 60		1.2 U	0.85 U	0.80 U	0.80 U	0.75 U	0.80 U
DPT0362	31 to 35	11/11/2014	1.2 U	0.85 U	0.80 U	0.80 U	0.75 U	0.80 U
	36 to 40		1.2 U	0.85 U	2.2 I	0.80 U	0.75 U	2.0 I
	41 to 45		0.23 U	3.4	**130**	13.5	0.33 I	**770**
	46 to 50	11/12/2014	0.23 U	**27.1**	**1,100**	59.6	2.5	**1,500**
	51 to 55		0.23 U	0.17 U	8.7	0.56 I	0.15 U	**5**
	56 to 60		1.2 U	0.85 U	**300**	12	0.75 U	**270**
DPT0363	31 to 35	11/12/2014	0.23 U	0.19 U	0.53 I	0.29 U	0.30 U	0.26 U
	36 to 40		0.23 U	0.19 U	1.5	0.29 U	0.30 U	0.26 U
	41 to 45		0.23 U	0.19 U	3.4	0.29 U	0.30 U	**5.2**
	46 to 50		0.23 U	0.19 U	0.30 I	0.29 U	0.30 U	1.2
	51 to 55		0.46 U	0.38 U	0.44 U	0.58 U	0.60 U	0.52 U
	56 to 60		1.2 U	0.95 U	1.1 U	1.5 U	1.5 U	1.3 U

Notes:
1. µg/L indicates micrograms per liter.
2. ft BLS indicates feet below land surface.
3. U indicates not detected above method detection limit.
4. J indicates estimated value.
5. I indicates result is between the method detection limit and the practical quantitation limit.
6. L indicates value exceeds calibration range.
7. Dashes indicates not analyzed.
8. FDEP indicates Florida Department of Environmental Protection.
9. Bold indicates analyte detected above the FDEP Groundwater Cleanup Target Level (GCTL).
10. Shading and bold denotes greater than the FDEP Natural Attenuation Default Concentration (NADC).

APPENDIX H

SUMMARY OF MONITORING WELL SAMPLING RESULTS

Monitoring Well Sampling Results - VOCs

Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Trichloroethene	*cis* -1,2-dichloroethane	*trans* -1,2-dichloroethane	1,1-dichloroethane	1,1-dichloroethene	Vinyl chloride	Acetone	Benzene	Bromodichloromethane	Chlorobenzene	Chloroform	Dibromochloromethane	Dichlorodifluoromethane	Methylene Chloride	Toluene
Groundwater Cleanup Target Level (µg/L)			**3**	**70**	**100**	**70**	**7**	**1**	**6,300**	**1**	**91**	**100**	**70**	**0.4**	**1,400**	**2.7**	**1,000**
Natural Attenuation Default Criteria (µg/L)			**300**	**700**	**1,000**	**700**	**70**	**100**	**63,000**	**100**	**910**	**1,000**	**700**	**40**	**14,000**	**270**	**10,000**
CRHE-IW0014I	30 to 40	03/21/2012	0.16 U	0.36 U	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	4 I	0.21 U	3.6
		05/6/2005	0.50 U	1.3	0.50 U	0.50 U	--	0.50 U	5.6 U	0.21 U	0.17 U	0.21 I	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-IW0014D	65 to 70	05/13/2005	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	5.6 U	0.32 I	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-IW0014I	35 to 45	05/13/2005	0.50 U	0.50 U	0.50 U	0.50 U	--	**99.1**	5.6 U	0.48 I	0.17 U	1.3	0.35 U	0.19 U	0.23 U	0.21 U	0.25 I
		10/27/2005	0.50 U	0.50 U	0.50 U	0.50 U	--	**3.7**	5.6 U	0.25 I	0.17 U	0.49 I	0.35 U	0.19 U	79	0.21 U	0.19 U
		05/9/2006	0.70 U	0.93 J	0.50 U	0.70 U	--	**70.9**	5.6 U	0.21 U	0.17 U	0.98 I	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
		05/15/2006	0.50 U	0.50 U	0.50 U	0.50 U	--	**81.3**	5.6 U	0.21 U	0.17 U	0.16 U	0.51 I	0.19 U	0.23 U	0.21 U	0.19 U
		11/7/2006	0.50 U	0.50 U	0.50 U	0.50 U	--	**29**	5.6 U	0.21 U	0.17 U	0.16 U	0.7 I	0.19 U	0.23 U	0.21 I	0.19 U
		05/16/2007	0.50 U	0.50 U	0.50 U	0.50 U	--	**2.2**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
		11/12/2007	0.38 U	0.28 U	0.20 U	0.23 U	--	0.34 U	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.41 I
		05/20/2008	0.32 U	0.2 U	0.45 U	0.54 U	--	**21.8**	5.6 U	0.21 U	6.4	0.16 U	0.41 I	0.19 U	0.23 U	0.22 I	0.36 I
		11/10/2008	0.32 U	0.2 U	0.45 U	0.54 U	--	1.3	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.22 I
		05/15/2009	0.32 U	0.2 U	0.45 U	0.54 U	--	**14.5**	5.6 U	0.59 I	0.17 U	0.31 I	4.2	0.19 U	0.23 U	0.55 I	0.19 U
		03/21/2012	0.16 U	0.36 U	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	1.4	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-IW0015I	35 to 45	05/13/2005	0.50 U	53.8	0.50 U	0.50 U	--	**20**	5.9 I	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
		10/27/2005	0.50 U	29.6	0.50 U	0.50 U	--	**12.3**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
		05/15/2006	0.50 U	26.1	0.50 U	0.50 U	--	**18.2**	5.6 U	0.21 U	0.57 I	0.62 I	6.6	0.31 I	0.23 U	0.3 I	0.71 I
		11/7/2006	0.50 U	2.2	0.50 U	0.50 U	--	**2.7**	9.9 I	0.21 U	0.17 U	0.42 I	0.35 U	0.19 U	3 I	0.21 U	0.19 U
		05/16/2007	0.50 U	56.7	0.50 U	0.50 U	--	**26.4**	5.6 U	0.36 I	0.17 U	3.4	0.35 U	0.19 U	140	0.21 U	0.19 U
		11/12/2007	0.38 U	35.2	0.20 U	0.23 U	--	**20**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.23 I
		05/20/2008	0.32 U	61	0.45 U	0.54 U	--	**31.2**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
		11/11/2008	0.32 U	53.2	0.45 U	0.54 U	--	**34.9**	5.6 U	0.25 I	0.17 U	1.2	0.35 U	0.19 U	8 I	0.21 U	0.2 I
		05/15/2009	0.64 U	**106**	0.9 U	1.1 U	--	**43.7**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
		03/19/2012	0.16 U	**76**	0.12 U	2	0.16 U	**27**	5.6 U	0.21 U	0.17 U	0.21 I	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-IW0016I	35 to 45	05/13/2005	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	--	--	--	--	--	--	--
		10/27/2005	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	--	--	--	--	--	--	--
CRHE-IW0017I	25 to 35	05/6/2005	0.50 U	0.64 J	0.50 U	0.50 U	--	**142**	--	--	--	--	--	--	--	--	--
		10/27/2005	2.5 U	2.5 U	2.5 U	2.5 U	--	**140**	--	--	--	--	--	--	--	--	--
		05/9/2006	0.70 U	0.70 U	0.50 U	0.70 U	--	**56.4**	--	--	--	--	--	--	--	--	--
		05/15/2006	0.50 U	0.50 U	0.50 U	0.50 U	--	**114**	--	--	--	--	--	--	--	--	--
		11/7/2006	0.50 U	0.57 I	0.50 U	0.50 U	--	**111**	--	--	--	--	--	--	--	--	--
		05/16/2007	0.50 U	0.50 U	0.50 U	0.50 U	--	**98.4**	--	--	--	--	--	--	--	--	--
		11/12/2007	0.38 U	0.28 U	0.20 U	0.23 U	--	**122**	--	--	--	--	--	--	--	--	--
		05/20/2008	0.32 U	0.48 I	0.45 U	0.54 U	--	**83.6**	--	--	--	--	--	--	--	--	--
		11/10/2008	0.32 U	0.49 I	0.45 U	0.54 U	--	**91.8**	--	--	--	--	--	--	--	--	--
		05/15/2009	0.32 U	0.49 I	0.45 U	0.54 U	--	**76.3**	--	--	--	--	--	--	--	--	--
		03/20/2012	0.16 U	0.52 I	0.27 I	0.13 U	0.16 U	**90**	5.6 U	0.32 I	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-IW0018I	35 to 45	05/16/2007	0.50 U	0.50 U	0.50 U	0.50 U	--	0.50 U	--	--	--	--	--	--	--	--	--
		11/12/2007	0.38 U	0.28 U	0.20 U	0.23 U	--	**10.3**	--	--	--	--	--	--	--	--	--
		05/20/2008	0.32 U	0.2 U	0.45 U	0.54 U	--	0.3 U	--	--	--	--	--	--	--	--	--
		11/10/2008	0.32 U	0.2 U	0.45 U	0.54 U	--	**6.4**	--	--	--	--	--	--	--	--	--
		05/15/2009	0.32 U	0.2 U	0.45 U	0.54 U	--	0.3 U	--	--	--	--	--	--	--	--	--
CRHE-IW0019I	35 to 45	05/16/2007	0.50 U	**425**	5.8	1.6	--	**253**	--	--	--	--	--	--	--	--	--
		11/12/2007	3.8 U	**525**	2.0 U	2.3 U	--	**267**	--	--	--	--	--	--	--	--	--
		05/20/2008	0.32 U	**327**	5.1	1.6	--	**215**	--	--	--	--	--	--	--	--	--
		11/11/2008	3.2 U	**810**	10	5.4 U	--	**336**	--	--	--	--	--	--	--	--	--
		05/15/2009	3.2 U	**753**	12.5	5.4 U	--	**324**	--	--	--	--	--	--	--	--	--
		03/20/2012	0.16 U	**1,000**	18	0.13 U	4.1	**530**	5.6 U	0.48 I	0.17 U	1.3	0.35 U	0.19 U	0.23 U	0.21 U	0.25 I
CRHE-IW0020I	40 to 50	05/16/2007	0.50 U	12.1	0.50 U	0.50 U	--	**38.5**	--	--	--	--	--	--	--	--	--
		11/12/2007	0.38 U	8.2	0.20 U	0.23 U	--	**26.2**	--	--	--	--	--	--	--	--	--
		05/20/2008	0.32 U	18.6	0.45 U	0.54 U	--	**54.5**	--	--	--	--	--	--	--	--	--
		11/11/2008	0.32 U	9.5	0.45 U	0.54 U	--	**59.7**	--	--	--	--	--	--	--	--	--
		05/15/2009	0.32 U	17.6	0.45 U	0.54 U	--	**82.3**	--	--	--	--	--	--	--	--	--
		03/19/2012	0.16 U	33	0.27 I	0.13 U	0.16 U	**130**	5.6 U	0.25 I	0.17 U	0.49 I	0.35 U	0.19 U	79	0.21 U	0.19 U
CRHE-IW0021I	40 to 50	05/16/2007	0.50 U	0.66 I	0.50 U	0.50 U	--	**4.5**	--	--	--	--	--	--	--	--	--
		11/12/2007	0.38 U	0.62 I	0.20 U	0.23 U	--	0.34 U	--	--	--	--	--	--	--	--	--
		05/20/2008	0.32 U	0.5 I	0.45 U	0.54 U	--	**16.3**	--	--	--	--	--	--	--	--	--
		11/11/2008	0.32 U	0.73 I	0.45 U	0.54 U	--	**21.9**	--	--	--	--	--	--	--	--	--
		05/15/2009	0.32 U	0.2 U	0.45 U	0.54 U	--	**13.6**	--	--	--	--	--	--	--	--	--
		03/20/2012	0.16 U	0.36 U	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	0.17 U	0.98 I	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0022	60 to 70	03/21/2012	0.22 I	1.5	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	0.17 U	0.16 U	0.51 I	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0023	60 to 70	03/19/2012	0.16 U	0.46 I	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	0.17 U	0.16 U	0.7 I	0.19 U	0.23 U	0.21 I	0.19 U
CRHE-MW0024	5 to 15	03/21/2012	0.74 I	11	0.12 U	0.13 U	0.16 U	**13**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U

Monitoring Well Sampling Results - VOCs

Contractors Road Heavy Equipment Area SWMU 055

Location	Screen Interval (ft BLS)	Sample Date	Trichloroethene	*cis* -1,2-dichloroethane	*trans* -1,2-dichloroethane	1,1-dichloroethane	1,1-dichloroethene	Vinyl chloride	Acetone	Benzene	Bromodichloromethane	Chlorobenzene	Chloroform	Dibromochloromethane	Dichlorodifluoromethane	Methylene Chloride	Toluene
Groundwater Cleanup Target Level (µg/L)			**3**	**70**	**100**	**70**	**7**	**1**	**6,300**	**1**	**91**	**100**	**70**	**0.4**	**1,400**	**2.7**	**1,000**
Natural Attenuation Default Criteria (µg/L)			**300**	**700**	**1,000**	**700**	**70**	**100**	**63,000**	**100**	**910**	**1,000**	**700**	**40**	**14,000**	**270**	**10,000**
CRHE-MW0025	25 to 35	03/21/2012	0.6 I	**9,700**	75	2.2	**15**	**7,600**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.41 I
CRHE-MW0026	30 to 40	03/21/2012	**1,000**	**3,600**	34	3.5	**9.1**	**2,000**	5.6 U	0.21 U	6.4	0.16 U	0.41 I	0.19 U	0.23 U	0.22 I	0.36 I
CRHE-MW0027	40 to 50	03/21/2012	1.3	**790**	14	0.96 I	2.7	**1,700**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.22 I
CRHE-MW0028	35 to 45	03/20/2012	0.16 U	3.5	4.1	0.13 U	0.16 U	**180**	5.6 U	0.59 I	0.17 U	0.31 I	4.2	0.19 U	0.23 U	0.55 I	0.19 U
CRHE-MW0029	40 to 50	03/21/2012	**140**	**420**	13	0.13 U	1.4	**100**	5.6 U	0.21 U	1.4	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0030	5 to 15	03/19/2012	0.16 U	0.36 U	0.12 U	0.13 U	0.16 U	0.22 U	5.9 I	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0031	40 to 50	03/19/2012	1.5	59	6	0.13 U	0.16 U	**200**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0032	40 to 50	03/19/2012	0.16 U	13	8.2	0.54 I	0.16 U	**83**	5.6 U	0.21 U	0.57 I	0.62 I	6.6	0.31 I	0.23 U	0.3 I	0.71 I
CRHE-MW0033	40 to 50	03/20/2012	0.52 I	**99**	1.4	0.92 I	0.16 U	**33**	9.9 I	0.21 U	0.17 U	0.42 I	0.35 U	0.19 U	3 I	0.21 U	0.19 U
CRHE-MW0034	30 to 40	03/20/2012	0.16 U	12	0.12 U	0.13 U	0.16 U	**150**	5.6 U	0.36 I	0.17 U	3.4	0.35 U	0.19 U	140	0.21 U	0.19 U
CRHE-MW0035	40 to 50	03/20/2012	0.16 U	0.55 I	0.44 I	0.26 I	0.16 U	**130**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.23 I
CRHE-MW0036	5 to 15	03/20/2012	0.16 U	0.36 U	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0037	25 to 35	03/20/2012	0.16 U	0.44 I	0.12 U	0.13 U	0.16 U	**19**	5.6 U	0.25 I	0.17 U	1.2	0.35 U	0.19 U	8 I	0.21 U	0.2 I
CRHE-MW0038	5 to 15	03/19/2012	0.16 U	0.36 U	0.12 U	0.13 U	0.16 U	0.22 U	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.23 U	0.21 U	0.19 U
CRHE-MW0039	25 to 35	03/19/2012	0.16 U	0.49 I	0.43 I	0.13 U	0.16 U	**92**	5.6 U	0.21 U	0.17 U	0.16 U	0.35 U	0.19 U	0.96 I	0.21 U	0.5 I
CRHE-MW0040	65 to 75	7/11/2013	1 U	1 U	1 U	1 U	--	1 U	--	--	--	--	--	--	--	--	--

Notes:
1. Results are shown in units of micrograms per liter (µg/L).
2. ft BLS indicates feet below land surface.
3. U indicates not detected above method detection limit.
4. J indicates estimated value.
5. I indicates result is between the method detection limit and the practical quantitation limit.
6. FDEP indicates Florida Department of Environmental Protection.
7. Bold indicates analyte detected above the FDEP Groundwater Cleanup Target Level (GCTL).
8. Shading and bold denotes greater than FDEP Natural Attenuation Default Concentration (NADC).
9. Dashes indicate no data available.

APPENDIX I

INTERIM LAND USE CONTROL IMPLEMENTATION PLAN

INTERIM LAND USE CONTROL IMPLEMENTATION PLAN

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
KENNEDY SPACE CENTER
BREVARD COUNTY, FLORIDA

FACILITY:	Contractors Road Heavy Equipment (CRHE) Area Solid Waste Management Unit 055
CONTAMINANTS:	Volatile Organic Compounds in groundwater
CONTROL:	Prevent contact with groundwater

PURPOSE OF LAND USE CONTROL IMPLEMENTATION PLAN

This Interim Land Use Control Implementation Plan (LUCIP) has been prepared to inform current and potential future users of the Kennedy Space Center (KSC) Contractors Road Heavy Equipment (CRHE) Area (SWMU 055; "the Site") of institutional controls that have been implemented at the Site[1]. Although there are no current unacceptable risks to human health or the environment associated with the CRHE Area, an interim institutional land use control (LUC) is necessary to prevent human health exposure to volatile organic compound (VOC)-affected groundwater at the Site. Controls will include periodic inspection, condition certification, and agency notification.

WHY LAND USE CONTROLS ARE NEEDED

VOCs have been identified in groundwater at the Site above applicable Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Level (GCTL) and Natural Attenuation Default Concentration (NADC) screening criteria.

SITE DESCRIPTION

The CRHE Area is a group of NASA-operated facilities that includes the Printed Circuit Board Shop (PCBS-SWMU No. 31) and associated Acid Dump Site (SWMU No. 15); Sewage Treatment Plant (STP) No. 15 (SWMU No. 16); a polishing pond on the eastern edge of the SWMU boundary; a fenced area at the north end of the SWMU boundary where sandblasting and painting operations took place in the past; and Heavy Equipment Area buildings and parking areas south of the PCBS (SWMU No. 055). The CRHE Area buildings and parking areas have been used for a variety of operations including heavy equipment storage and maintenance dating back to the construction of NASA's Vehicle Assembly Building (VAB), and for staging of regulated and hazardous waste. Currently, the area is used

[1] *This LUCIP summarizes institutional controls regarding the NASA CRHE. For detailed information on the Site, consult the CRHE administrative file, which is available for review by contacting the KSC Environmental Assurance Branch at telephone number (321) 867-8402.*

for heavy equipment storage and maintenance. Hazardous wastes are no longer stored on site.

The PCBS facility has been used for manufacturing printed circuit boards, silk screening, plating, and laminating road signs. Spent chemicals from the circuit board process were temporarily stored in an underground storage tank (UST) located immediately east of the PCBS. The UST ruptured during removal on August 7, 1990 and the location was identified as the Acid Dump Site in a subsequent report. In addition, printed circuit board rinsate water and equipment cooling water were discharged to a hole or drum in a wetland area immediately east of STP No. 15. Printed circuit board manufacturing operations have been discontinued; however, some "closed-loop" plating operations are ongoing. A hazardous waste staging area structure that currently is only used for non-regulated waste is located adjacent to the PCBS building K6-1996.

The STP No. 15 and Polishing Pond were used for treatment of domestic wastewater from the PCBS building and the office building north of the PCBS. Wastewater was reportedly discharged to STP No. 15 from November 1971 until July 1986 when domestic wastes that this unit would have treated were redirected to STP No. 4, which serves the VAB area. From July 1986 to October 1996, STP No. 15 served as a grease treatment plant, where grease collected from grease traps was brought for biological treatment. In October 1996 STP 15 was abandoned.

SITE LOCATION

The CRHE Area is located at KSC on Contractors Road approximately 0.5 mile north of the intersection with Schwartz Road (Figure 1). The CRHE Area is about 1,100 by 1,350 feet.

The site is bounded on the north and east by woodlands, on the south by KSC's Roads and Grounds Facility, and on the west by Contractors Road and woods. The site is located within Section 18 of Township 22 South, Range 37 East, which is in the Orsino Quadrangle. Survey coordinates in the State Plane Coordinate System North American Datum (NAD) 1983 meters, Florida East for the corners of the groundwater use control area are shown on Figure 2.

SITE CONTAMINATION AND CONTROL

Groundwater contaminated with VOCs at concentrations over FDEP GCTLs are currently being monitored to assure that off site migration does not occur and contaminants are naturally attenuating. LUCs are therefore required to prohibit groundwater use at the site. Potential for effects on indoor air quality shall be evaluated prior to any construction within the groundwater use control area.

DECISION DOCUMENT

The KSCRT determined that institutional controls should be implemented at the CRHE Area. A Statement of Basis (SB) establishes institutional controls as a component of the remedy for this site. The institutional controls are temporary while long term monitoring documents the reduction of VOCs through natural processes.

IMPLEMENTATION

Institutional controls will be implemented by the KSC Environmental Assurance Branch in accordance with their RCRA permit and a

Land Use Control Assurance Plan included in the Memorandum of Agreement (MOA)[2] between NASA and the FDEP, effective February 23, 2001. Upon approval of this Interim LUCIP, it will be incorporated into the permit by reference. Property transfer (if conducted in the future) will be conducted in accordance with Section X of the MOA.

KSC's Environmental Assurance Branch will provide KSC's Master Planning Office with survey coordinates of the LUCs. Restrictions will specify limitations on development and reuse for the area for as long as LUCs are necessary to protect human health and the environment.

MONITORING

Quarterly inspections to monitor that the LUCs specified herein are in place and operating will be conducted by KSC's Environmental Assurance Branch. The inspections will verify that no groundwater use is occurring.

REPORTING

KSC's Environmental Assurance Branch will submit annual reports to FDEP certifying retention of the LUCs.

ENFORCEMENT

KSC's Environmental Assurance Branch will be responsible for stopping any activities that are not compliant with this LUCIP.

MAINTENANCE

The Interim LUCIP shall remain in place until the scenarios managed by the LUCIP are no longer a concern.

[2] By separate MOA effective February 23, 2001, with the FDEP and KSC, on behalf of NASA, agreed to implement Center-wide, certain periodic site inspections, condition certification, and agency notification procedures designed to ensure the maintenance by Center personnel of any site-specific LUCs deemed necessary for future protection of human health and the environment. A fundamental premise underlying execution of that agreement was that through the Center's substantial good faith compliance with the procedures called for herein, reasonable assurances would be provided to the FDEP as to the permanency of those remedies which included the use of specific LUCs.

Although the terms and conditions of the MOA are not specifically incorporated or made enforceable herein by reference, it is understood and agreed by NASA KSC and FDEP that the contemplated permanence of the remedy reflected herein shall be dependent upon the Center's substantial good faith compliance with the specific LUC maintenance commitments reflected herein. Should such compliance not occur or should the MOA be terminated, it is understood that the protectiveness of the remedy concurred in may be reconsidered and that additional measures may need to be taken to adequately ensure necessary future protection of human health and the environment.

Legend

SWMU Boundary

Notes:
CRHE - Contractors Road Heavy Equipment Area
KSC - Kennedy Space Center
LUCIP - Land Use Control Implementation Plan
NASA - National Aeronautics and Space Administration
SWMU - Solid Waste Management Unit
VAB - Vehicle Assembly Building

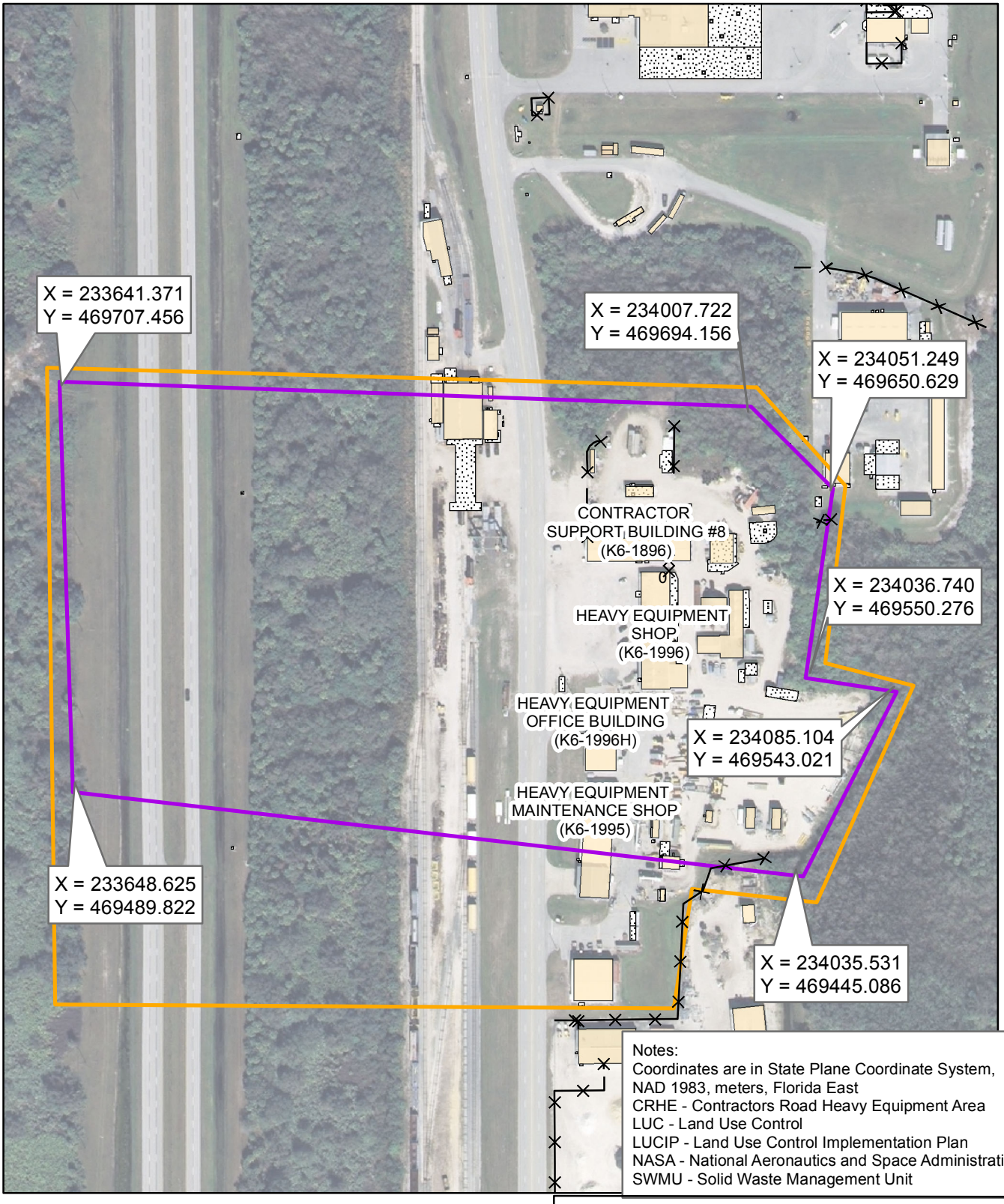
N

Site Location Map
Land Use Control Implementation Plan

Contractors Road Heavy Equipment Area
NASA Kennedy Space Center, Florida

Project Number: TL014021.0010

Figure 1
11/30/14



Site Plan
Land Use Control Implementation Plan

Contractors Road Heavy Equipment Area
NASA Kennedy Space Center, Florida

Project Number: TL014021.0000

Figure 2

APPENDIX J

MONITORING WELL COMPLETION REPORTS (electronic copy only)

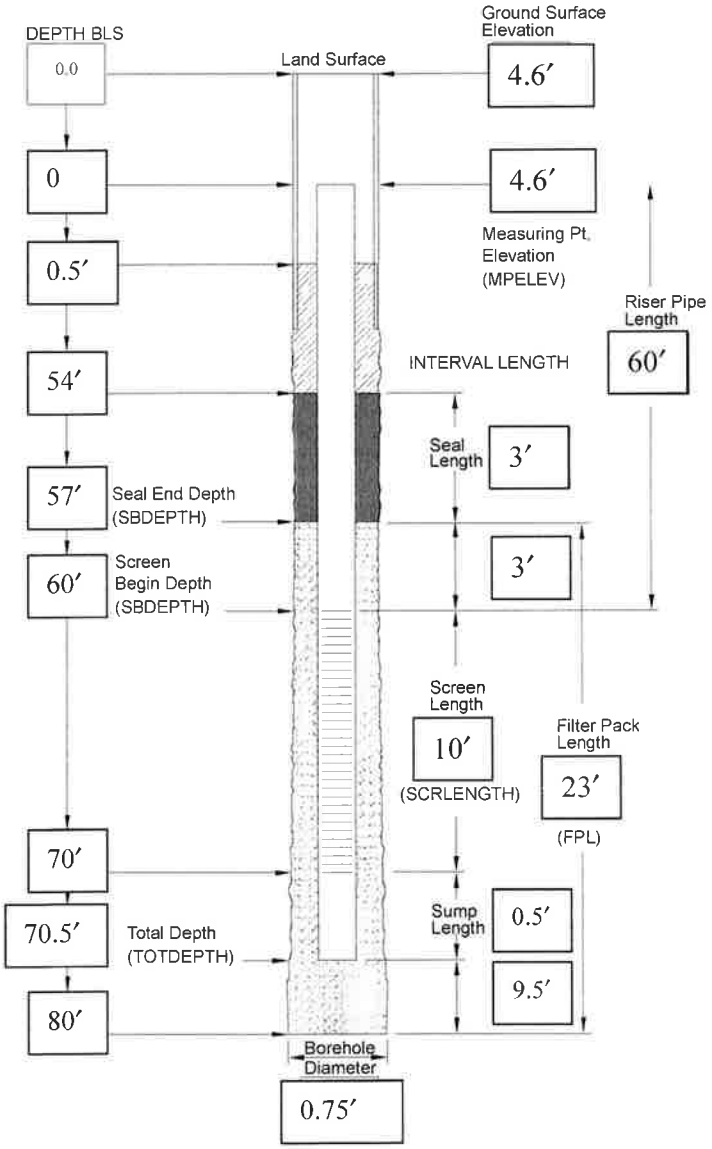
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0022
Drilling Company: Boart Longyear
Drillers: V. Scott, J. Klaver, J. Smith
Geologist/Engineer: J. McKinnon
Signature: Jill Johnson for J. McKinnon

Site: CRHE
Installation Method: Sonic
Casing Installation Date (INSDATE): 12/20/11
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Flush mount
Geologic Completion Zone (GZCODE): SAS



Well Completion
Guard Posts (Y / (N)) Date: 12/21/11
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8 inch manhole traffic grade cover
Depth BGS: 0 Weep Hole (Y / (N))
Grout
Composition/Proportions: Portland cement, water- 200 lbs/55 gal
Placement Method: Pressure grout

Seal Date: 12/20/11
Type: Bentonite
Source: Hole plug – coarse grade
Set-up/Hydration Time: 50 mins
Placement Method: Direct pour/tag
Vol. Fluid Added: -
Filter Pack
Type: 20/30 silica sand
Source: Standard Sand & Silica Co.
Amount Used: 250 lbs
Placement Method: Direct pour/tag
Well Riser Pipe
Casing Material (CMACODE): Schedule 40 PVC
Casing Inside Diameters (CASDIAM): 2 in.
Screen
Material: Schedule 40 PVC
Inside Diameter (SCRDIAM): 2 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): Standard
Sump or Bottom Cap ((Y) / N)
Type/Length: 0.5' sump
Backfill Plug ((Y) / N)
Material: Bentonite
Placement Method: Direct pour/tag
Set-up/Hydration Time: 30 mins
Total Water Volume During Construction
Introduced (Gal): ~ 400 gal
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 01/06/12

Comments

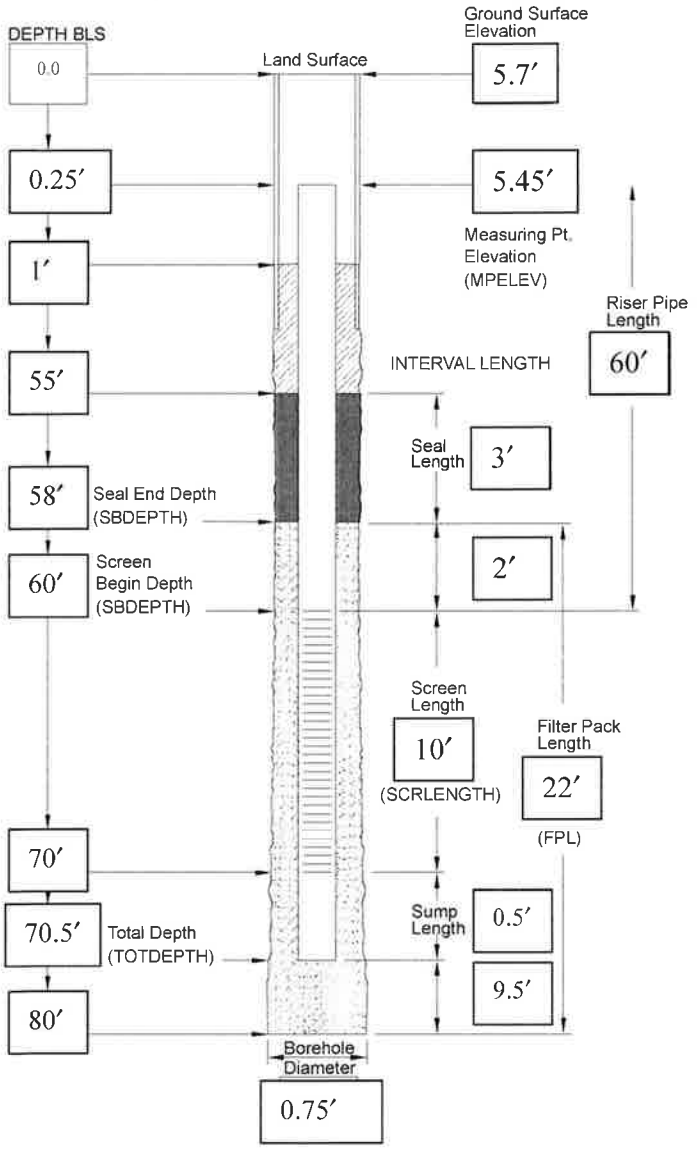
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0023
Drilling Company: Boart Longyear
Drillers: V. Scott, J. Klaver, J. Smith
Geologist/Engineer: J. McKinnon
Signature: Jill Johnson for J. McKinnon

Site: CRHE
Installation Method: Sonic
Casing Installation Date (INSDATE): 12/20/11
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Flush mount
Geologic Completion Zone (GZCODE): SAS



Well Completion
Guard Posts (Y / (N)) Date: 12/21/11
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8 inch manhole traffic grade cover
Depth BGS: 0 Weep Hole (Y / (N))
Grout
Composition/Proportions: Portland cement, water- 200 lbs/55 gal
Placement Method: Pressure grout

Seal Date: 12/20/11
Type: Bentonite
Source: Hole plug
Set-up/Hydration Time: 12 hrs
Placement Method: Direct pour/tag
Vol. Fluid Added: -
Filter Pack
Type: 20/30 silica sand
Source: Standard Sand & Silica Co.
Amount Used: 300 lbs
Placement Method: Direct pour/tag
Well Riser Pipe
Casing Material (CMACODE): Schedule 40 PVC
Casing Inside Diameters (CASDIAM): 2 in.
Screen
Material: Schedule 40 PVC
Inside Diameter (SCRDIAM): 2 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): Standard
Sump or Bottom Cap ((Y) / N)
Type/Length: 0.5' sump
Backfill Plug ((Y) / N)
Material: Bentonite
Placement Method: Direct pour/tag
Set-up/Hydration Time: 25 mins
Total Water Volume During Construction
Introduced (Gal): ~ 400 gal
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 01/06/12

Comments

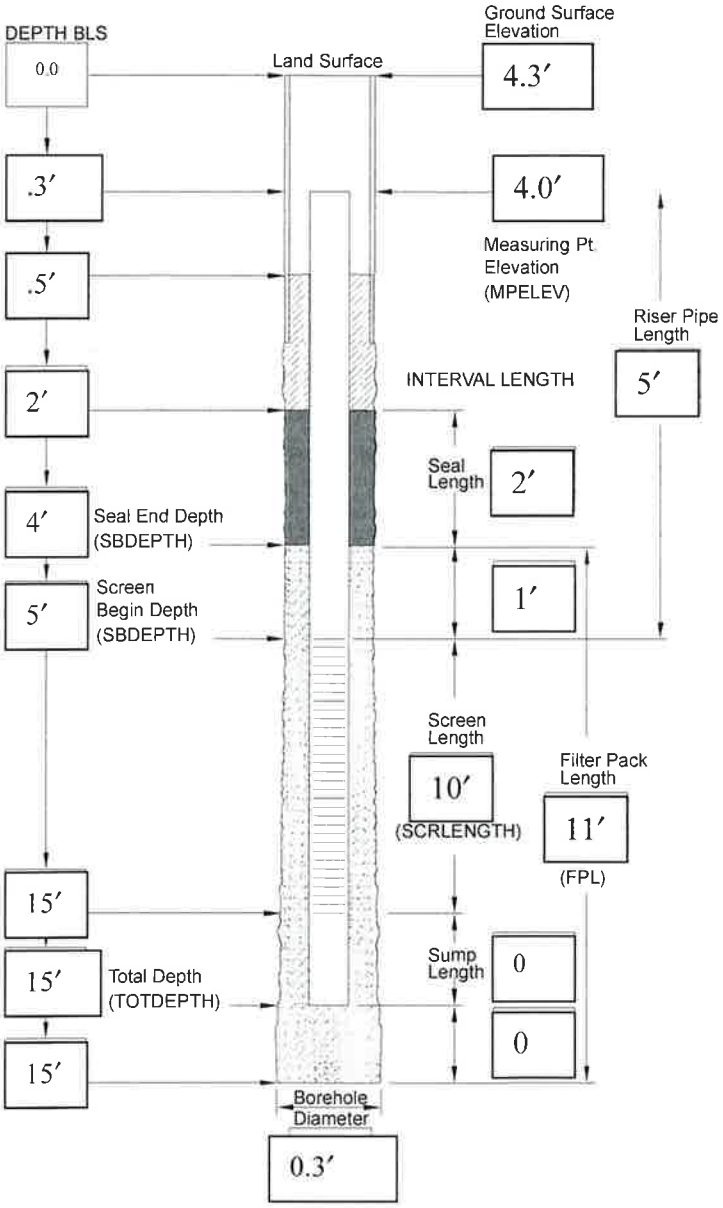
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0024
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: CCV for D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/13/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/13/12
Surface Pad Size: 3 ft x 5 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 Portland cement to water; ~3 gal
Placement Method: Open hole

Seal Date: 03/13/12
Type: 30/65 fine
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Open hole
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): Standard
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

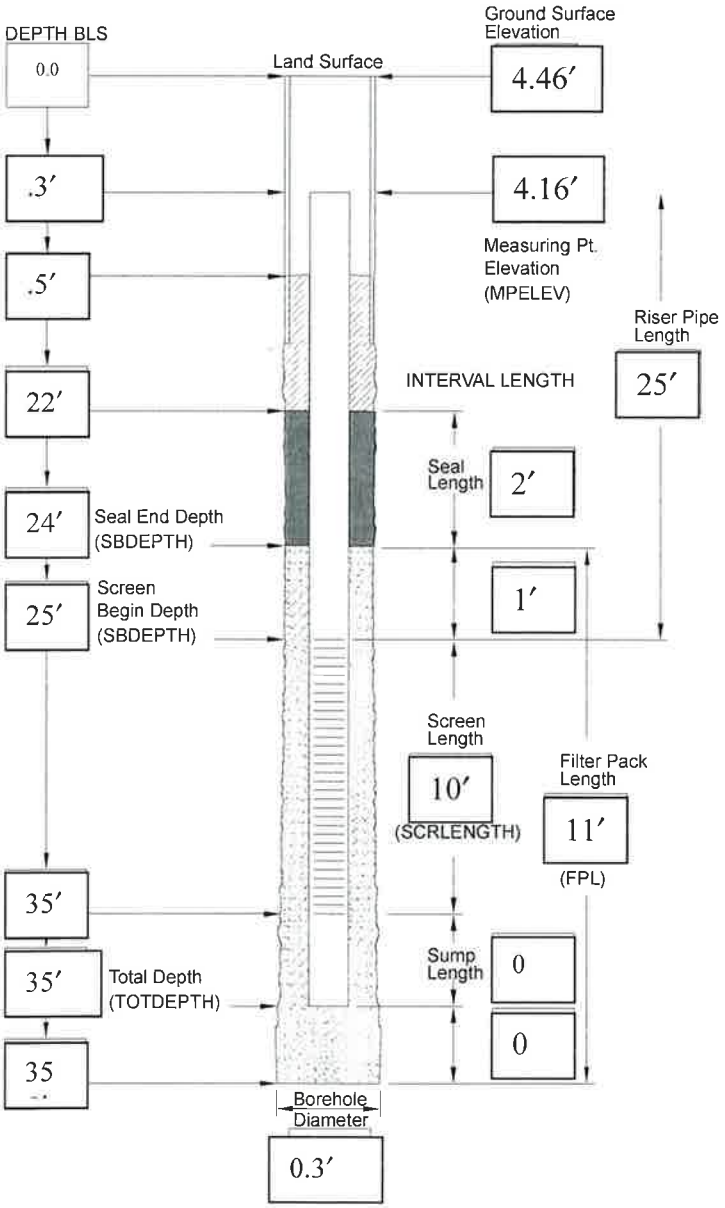
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0025
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: LCD for D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/13/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/13/12
Surface Pad Size: 3 ft x 5 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions:
1:1 cement to water; ~5 gals
Placement Method: Through drive casing

Seal Date: 03/13/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack 20/30
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): Standard
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

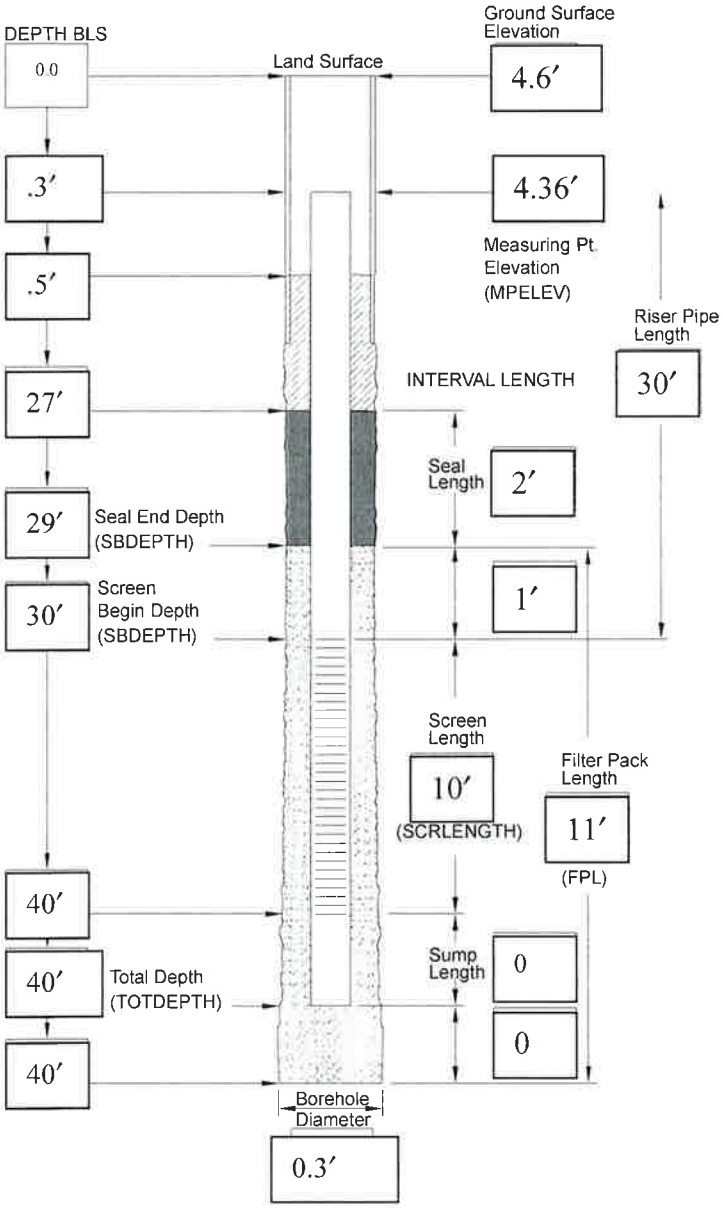
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0026
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: CCV for D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/13/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Comments

_____
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Well Completion
Guard Posts (Y / (N)) Date: 03/13/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions:
1:1 cement to water; ~5 gals
Placement Method: Through drive casing

Seal Date: 03/13/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

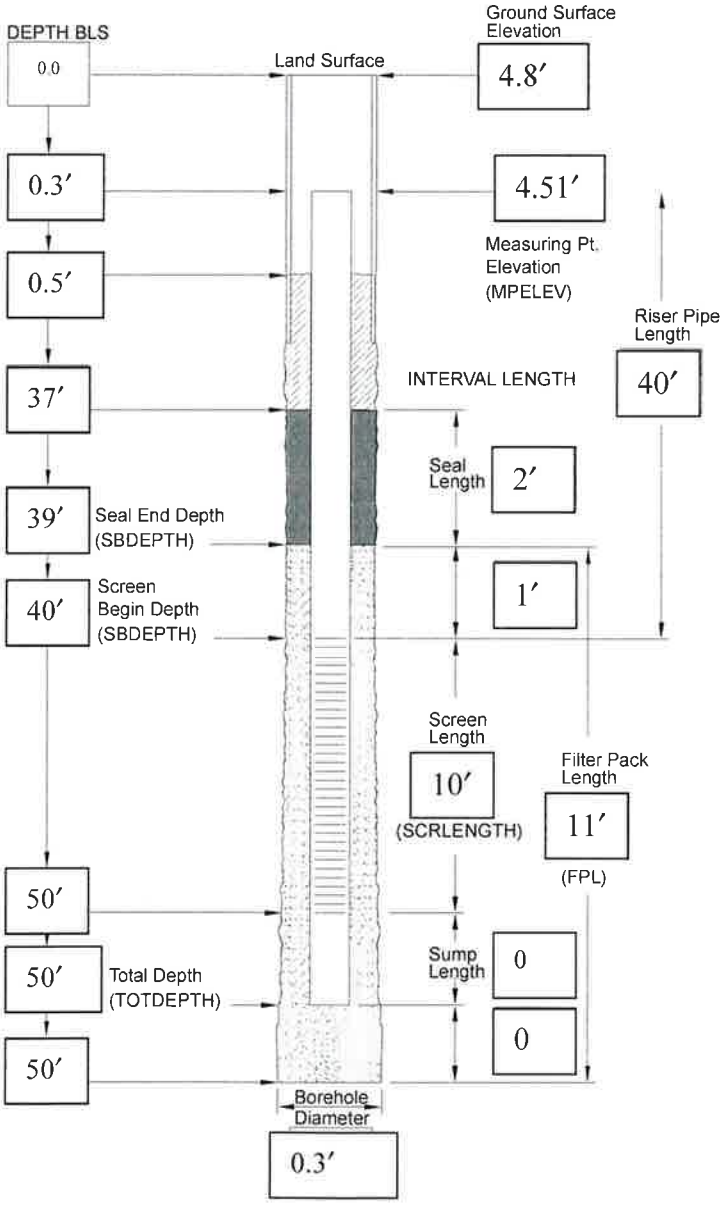
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0027
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: CCT for D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/15/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Comments

_____
_____
_____
_____

Well Completion
Guard Posts (Y / (N)) Date: 03/15/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1
Placement Method: Through drive casing
Seal Date: 03/15/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

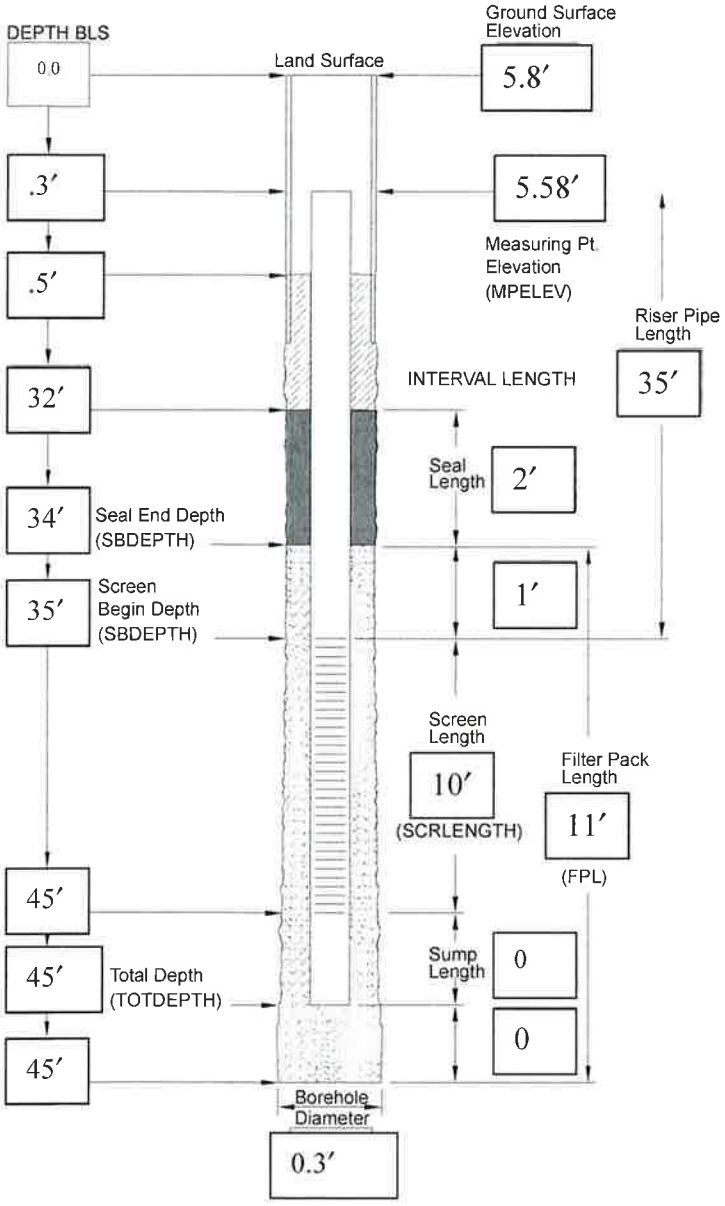
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0028
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: for D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/14/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/14/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water
Placement Method: Through drive casing

Seal Date: 03/14/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: JLJohnson Date: 04/09/12

Comments

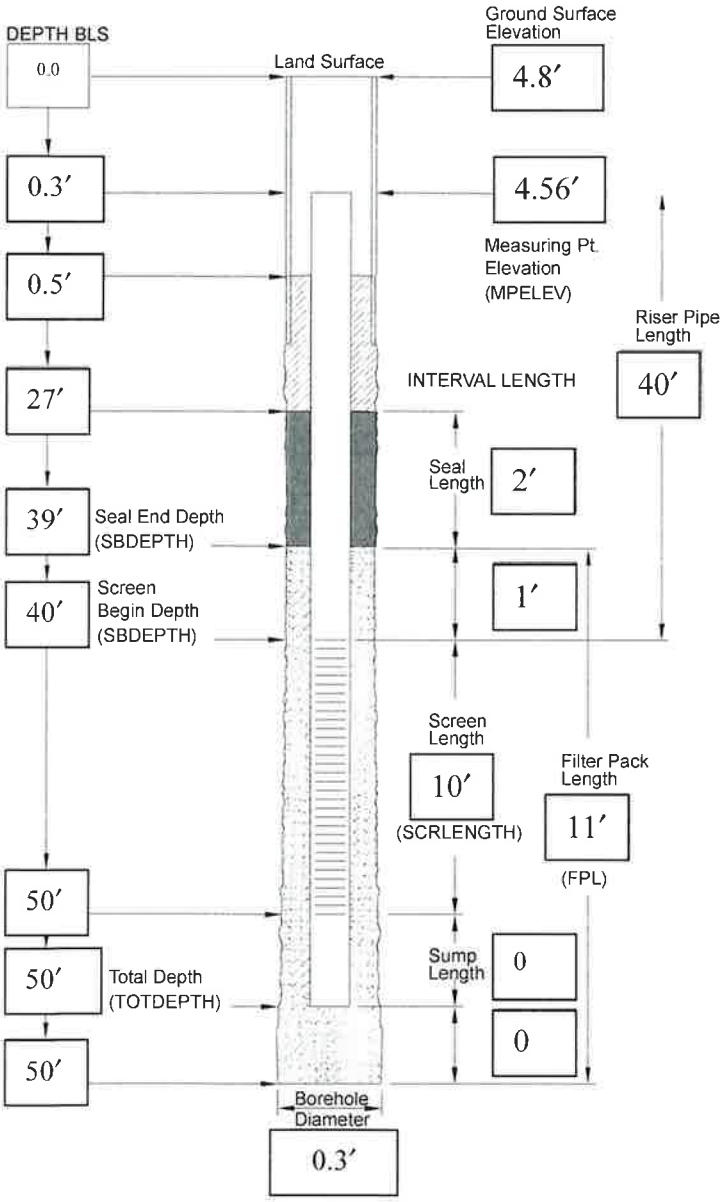
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0029
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/14/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/14/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water; ~10 gals
Placement Method: Through drive casing

Seal Date: 03/14/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

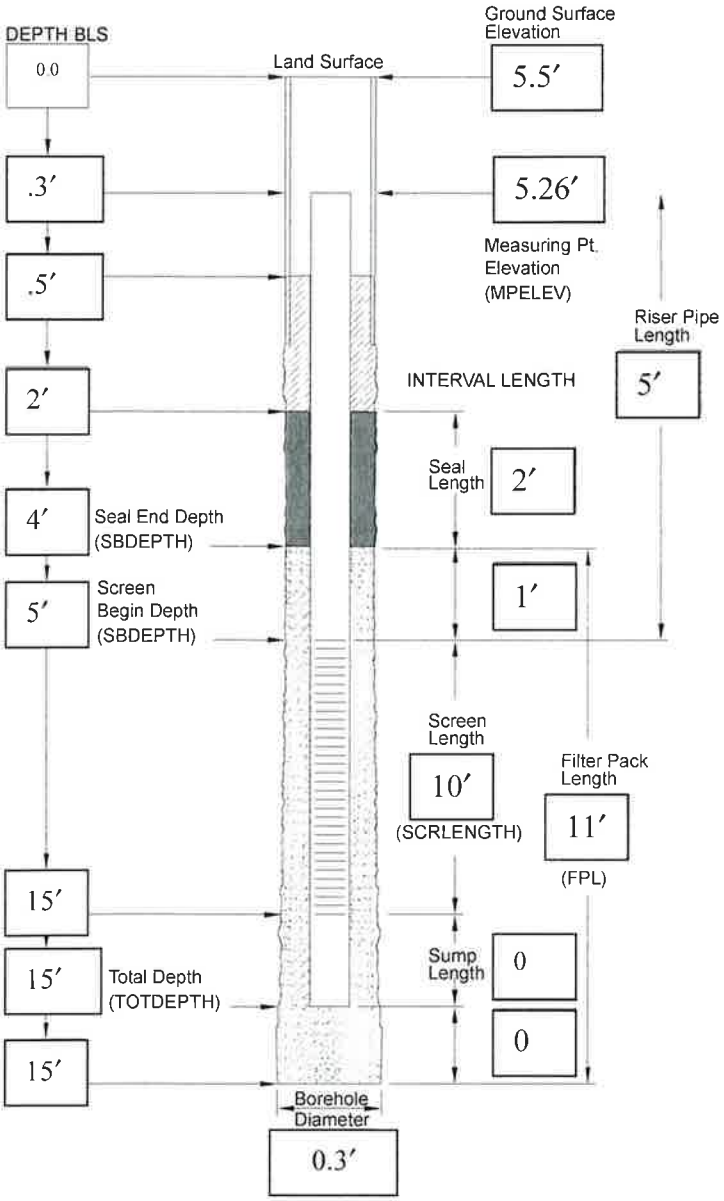
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0030
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/15/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/15/12
Surface Pad Size: 3 ft x 5 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water; ~3 gals
Placement Method: Through drive casing

Seal Date: 03/15/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

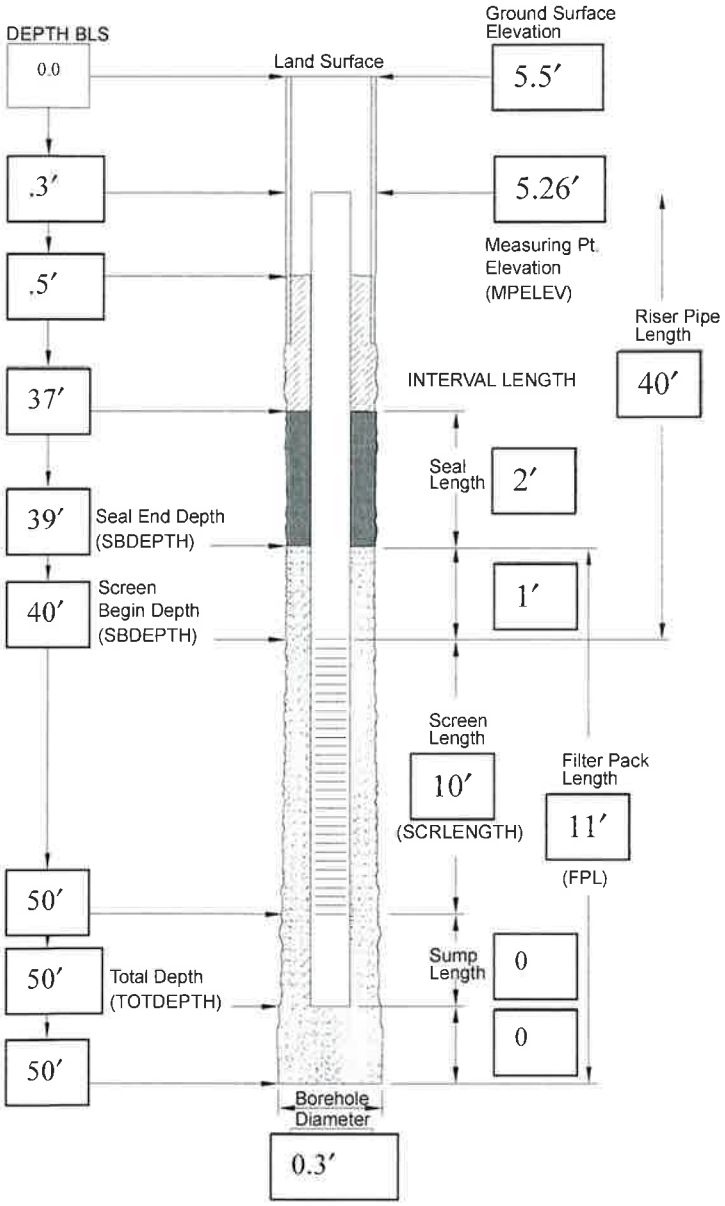
_Project # FR1681

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0031
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: UCD for D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/14/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/14/12
Surface Pad Size: 3 ft x 5 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water; ~10 gals
Placement Method: Through drive casing
Seal Date: 03/14/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: _____
Backfill Plug (Y (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

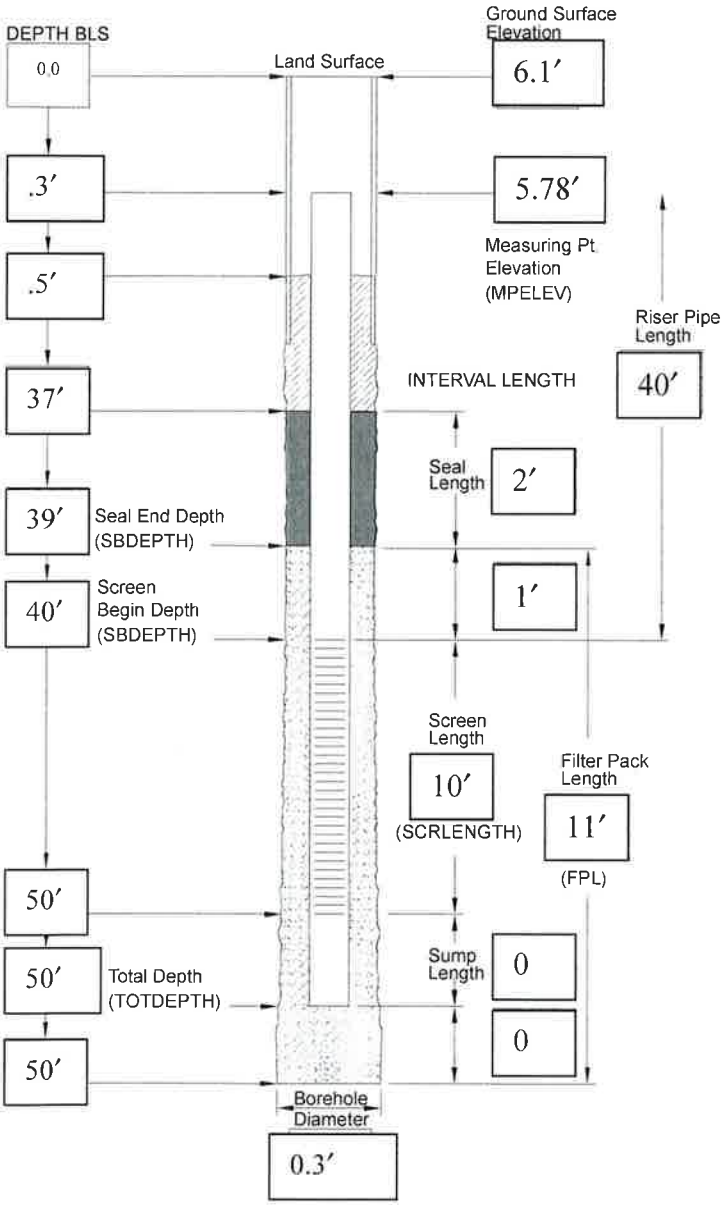
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0032
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: JCD for D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/14/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/14/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water; ~10 gals
Placement Method: Through drive casing
Seal Date: 03/14/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

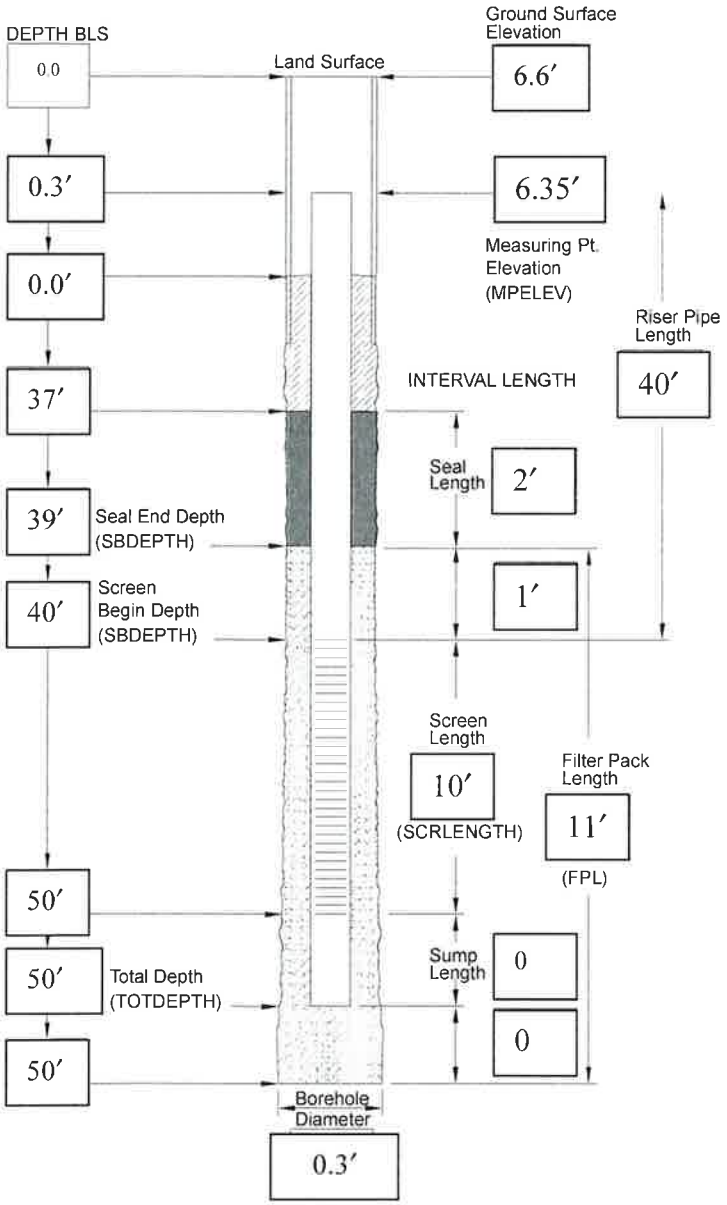
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0033
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: UCT for D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/13/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/13/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 6″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water; ~10 gals
Placement Method: Through drive casing
Seal Date: 03/13/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

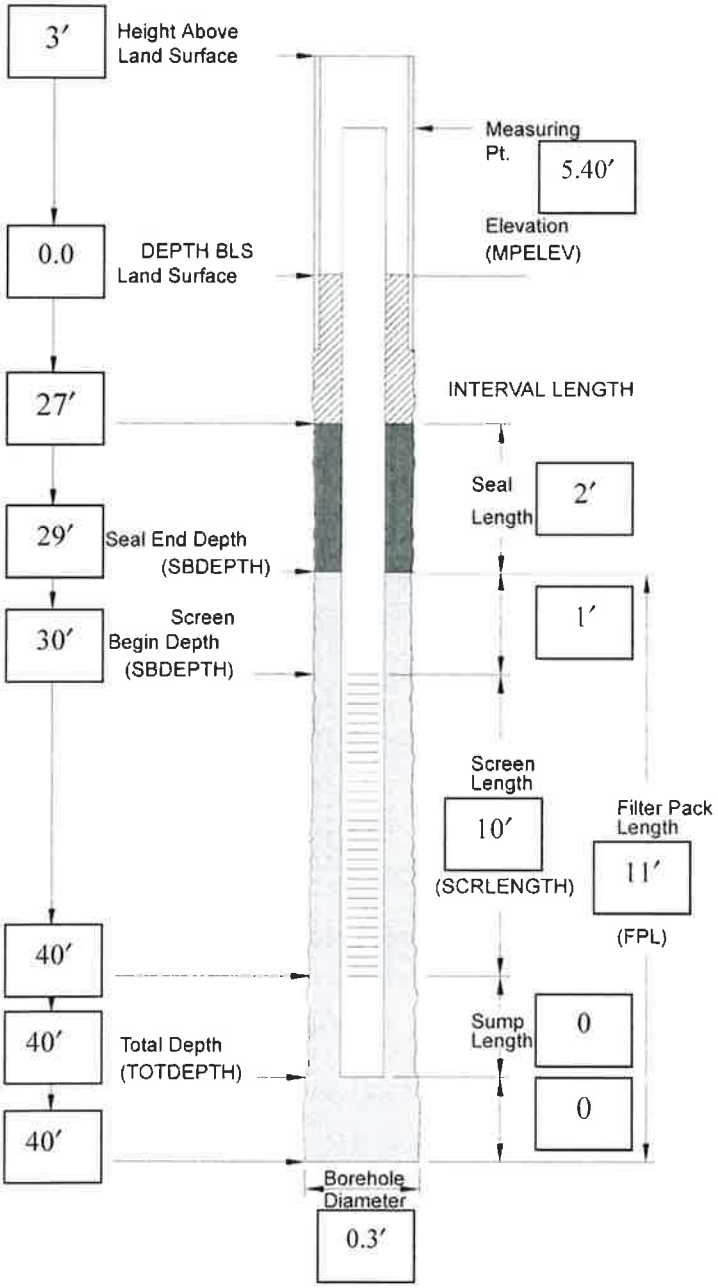
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
ABOVE GROUND COMPLETION

Well I.D. (LOCID): MW0034
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/13/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Comments

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Well Completion
Guard Posts (Y / N) Date: 03/13/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 6″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 Portland cement to water; ~7 gals
Placement Method: Through drive casing

Seal: Date: 03/13/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack 20/30
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): pre-pack -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): _____
Recovered (Gal): _____
Reviewed
By: Jill Johnson Date: 04/09/12

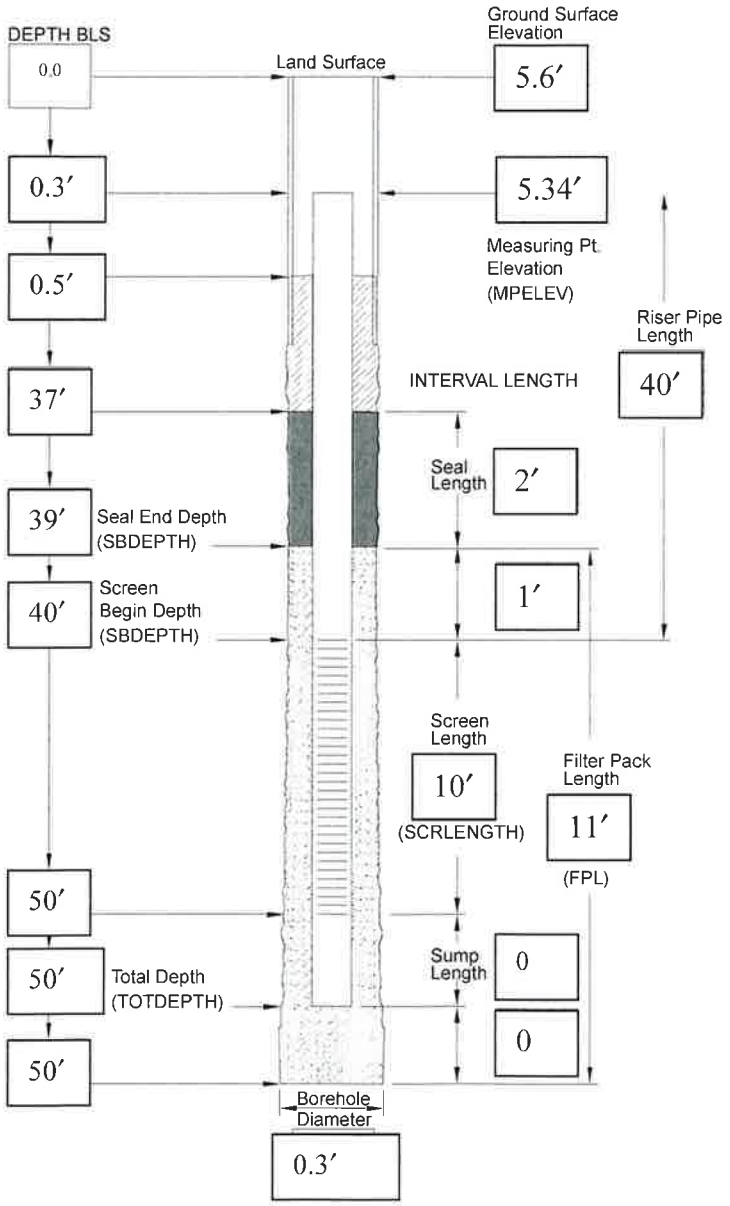
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0035
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: Used for D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/14/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/14/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 cement to water; ~5 gals
Placement Method: Through drive casing
Seal Date: 03/14/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

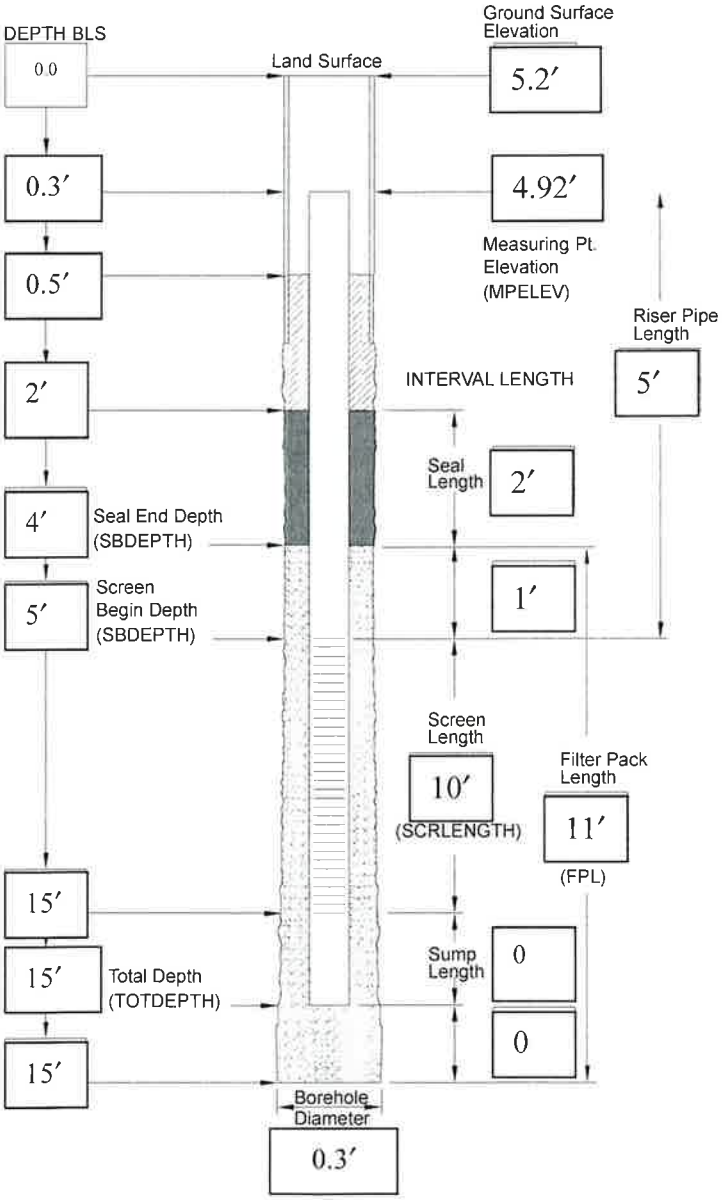
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0036
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/12/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/12/12
Surface Pad Size: 3 ft x 5 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 Portland cement to water; ~3 gals
Placement Method: Open hole

Seal Date: 03/12/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Open hole
Vol. Fluid Added: -
Filter Pack
Type: Prepack 20/30 sand
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

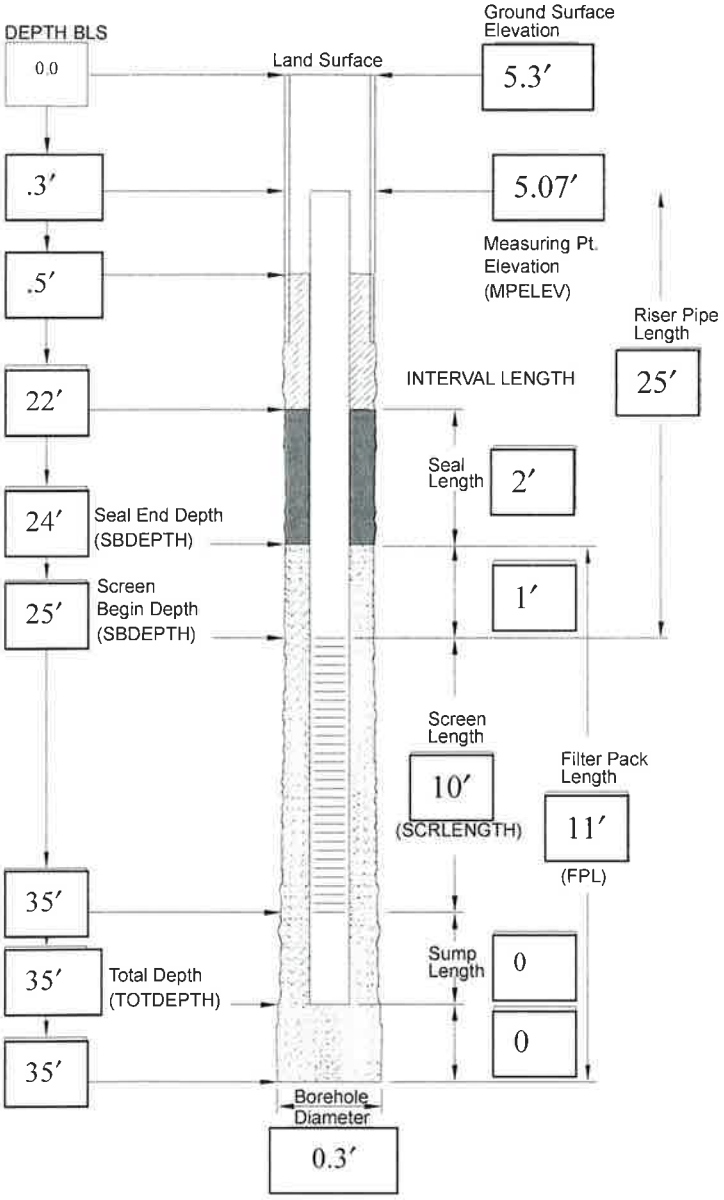
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0037
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: per D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/12/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Comments

_____
_____
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_____

Well Completion
Guard Posts (Y / (N)) Date: 03/12/12
Surface Pad Size: 3 ft x 5 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 Portland cement to water; ~8 gals
Placement Method: Through drive casing

Seal Date: 03/12/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack 20/30
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

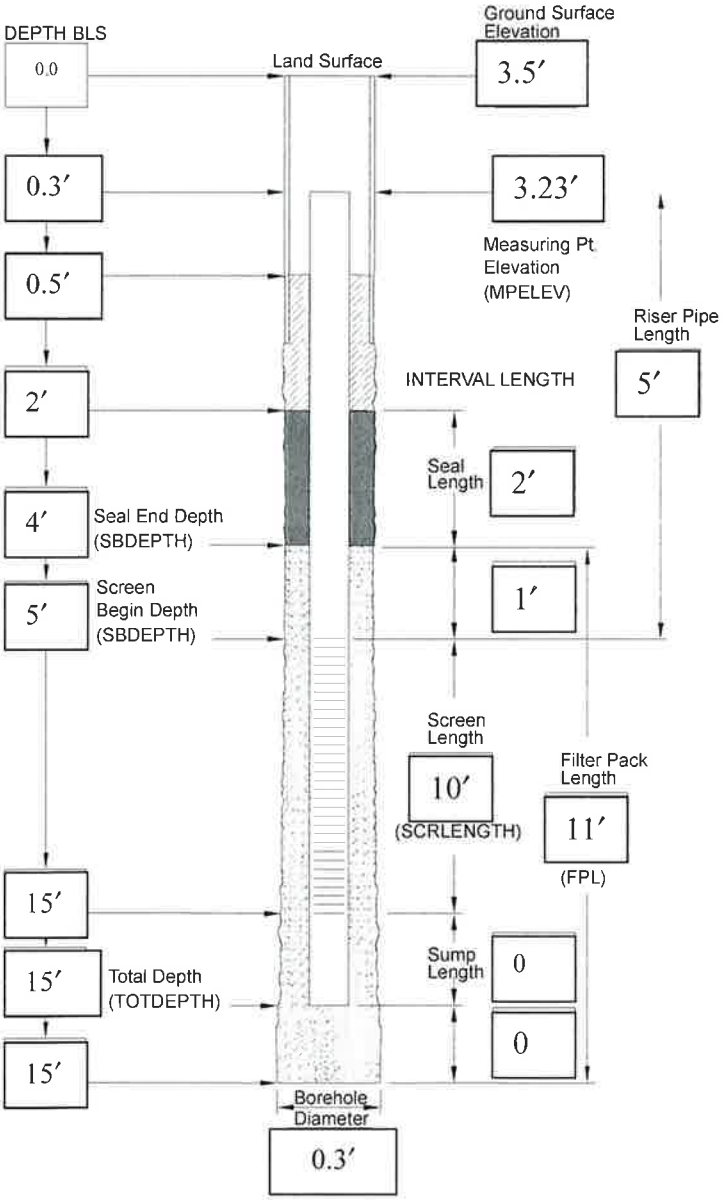
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0038
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: for D. Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/12/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/12/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 Portland cement to water; ~5 gals
Placement Method: Through drive casing

Seal Date: 03/12/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack 20/30
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

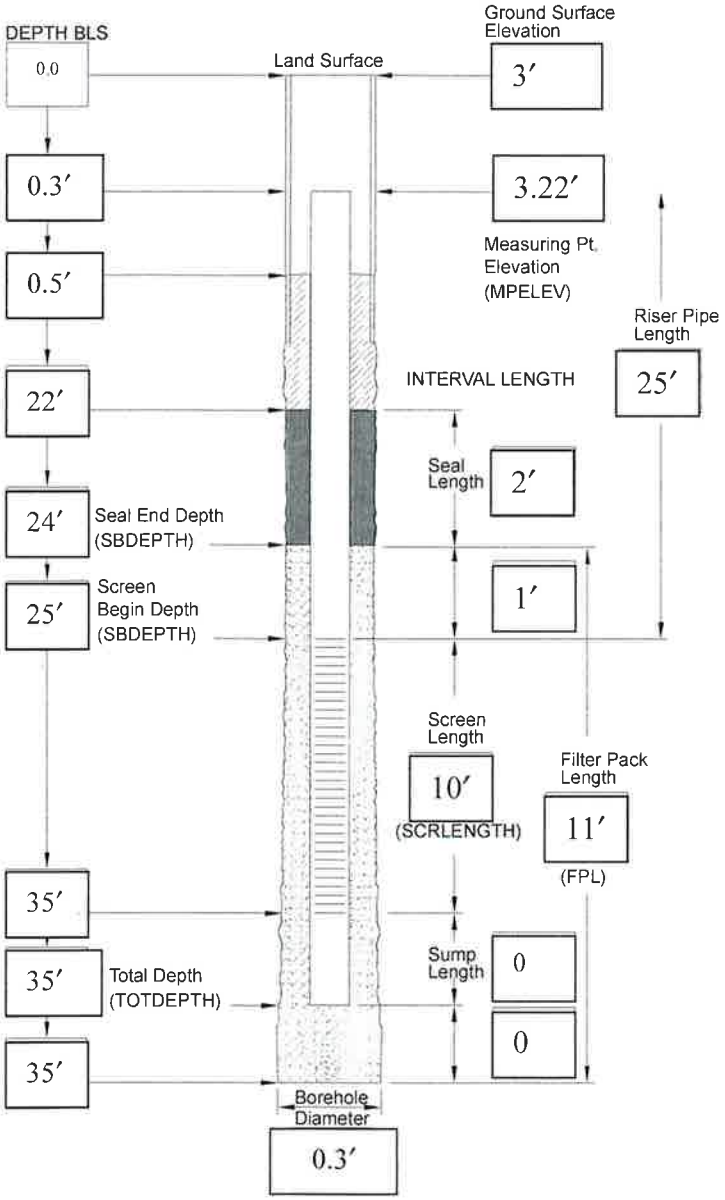
Project # **FR1681**

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW0039
Drilling Company: GPI
Drillers: Bryan Nazworth, Ben Yerma
Geologist/Engineer: D. Sizemore
Signature: UCD for D Sizemore

Site: CRHE
Installation Method: Geoprobe
Casing Installation Date (INSDATE): 03/12/12
Well Type (WTCCODE): Monitoring
Well Completion Method (WCMCODE): Thru drive casing
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts (Y / (N)) Date: 03/12/12
Surface Pad Size: 3 ft x 3 ft
Protective Casing or Cover
Diameter/Type: 8″
Depth BGS: 6″ Weep Hole (Y / (N))
Grout
Composition/Proportions: 1:1 Portland cement to water; ~10 gals
Placement Method: Through drive casing

Seal Date: 03/12/12
Type: 30/65 fine sand
Source: Standard Sand & Silica
Set-up/Hydration Time: -
Placement Method: Through drive casing
Vol. Fluid Added: -
Filter Pack
Type: Prepack 20/30
Source: Geoinsight
Amount Used: -
Placement Method: Prepack
Well Riser Pipe
Casing Material (CMACODE): PVC
Casing Inside Diameters (CASDIAM): 1 in.
Screen
Material: PVC
Inside Diameter (SCRDIAM): 1 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): -
Sump or Bottom Cap (Y / (N))
Type/Length: -
Backfill Plug (Y / (N))
Material: -
Placement Method: -
Set-up/Hydration Time: -
Total Water Volume During Construction
Introduced (Gal): 0
Recovered (Gal): -
Reviewed
By: Jill Johnson Date: 04/09/12

Comments

WELL COMPLETION LOG

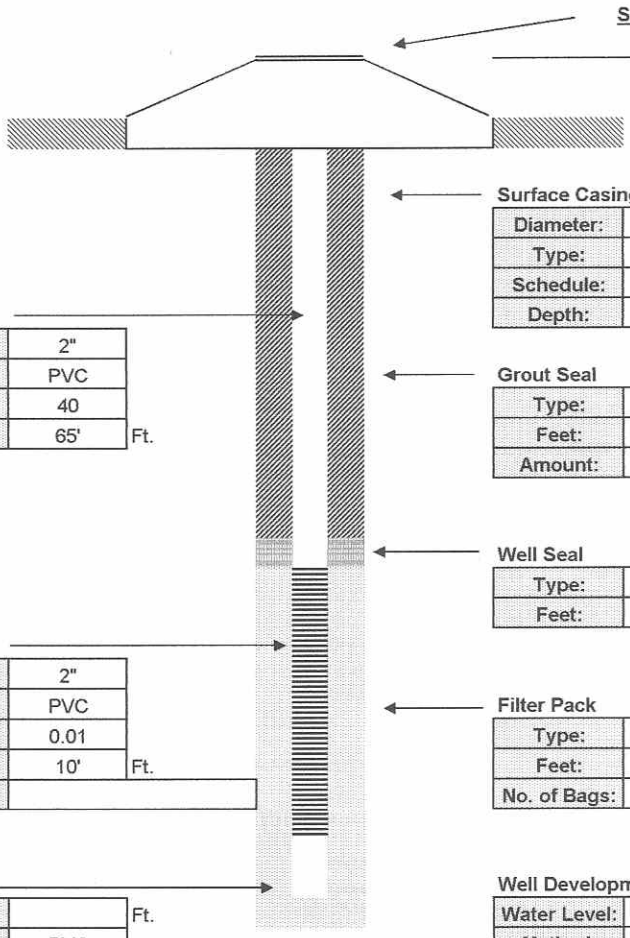
Water Mgmt. Dist.:
Permit Number:

Work Order: 713013
Type of Well: Monitor
Well Number: MW 040
Method Used: Sonic
Borehole Diaz. 6"

Site Information:
Name: CRHEA
Address: Contractor Rd.
C,S,Z: KSC, FL
S/T/R:

Client / Consultant Information
Consultant: Arcadis
Field Rep: Eric

Well Diameter	Well Type	Well Depth	Screen Length	Casing Length	Bags Grout	Sand Bags/Weight	Filter Type	Well Seal
2"	PVC	75'	10'	65'	6	5 / 50 lbs.	20/30	30/65
40 ←	Schedule	Slot Size: →	0.01		63'	← Feet →	11'	1'



Surface Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Intermediate Casing

Diameter:	
Type:	
Schedule:	
Depth:	

Well Casing

Diameter:	2"	
Type:	PVC	
Schedule:	40	
Length:	65'	Ft.

Grout Seal

Type:	I PORTLAND	
Feet:	63'	
Amount:	6	Bags

Well Seal

Type:	30/65
Feet:	1'

Well Screen

Diameter:	2"	
Type:	PVC	
Slot:	0.01	
Length:	10'	Ft.
Note:		

Filter Pack

Type:	20/30
Feet:	11'
No. of Bags:	5 / 50 lbs.

Sump

Length:		Ft.
Type:	PVC	

Well Development

Water Level:	5'		
Method:	Whale		
Start:	Cloudy	Finish:	Clear
Time:	.45 Mins		
GPM:	0.75		

Contractor Information

Contractor #:	9311
Completion:	7/2/2013
Driller:	Dave Longino
Lead Hand:	Thomas Watson
3rd Man:	Jeff Zeigler
Drill Rig:	SR 3

Company:	Drillpro LLC d/b/a Groundwater Protection
Address:	2300 Silver Star Road
C,S,Z:	Orlando, Florida 32804-3310
Phone/FAX:	(407) 426-7885 / (407) 426-7586

Well Development/Purge Log

Project Name: CRMR Project No.: FR1681

Facility: Location:

PID/FID Readings: (Ambient) (Well Mouth)

Initial Levels: (Product) (Water)

Sampling Depth: ft bgs

Pump ☐ Bail ☐ Avg. Rate: GPM Total Gal. Extracted:

Water Column Length: ft Well Volumes Extracted:

Disposition of Discharge Water:

Specific Capacity: (gpm/ft. drawdown) After Hrs.

Well Information

Number:
Location: See Bleeder
Datum:
Elev. Datum Point:
Top Of Casing Elev.: ft msl
Well Diameter:
Well Depth: ft
Well Material:

Equipment Information

Bailer No.:
Pump No.: Geopump
Interface Probe No.:
Sounder No.:
pH Meter No.: See cal form
Conductivity Meter No.:
Thermometer No.:
D.O. Meter No.:
Turbidity Meter No.:
ORP Meter No.:

	Time (24 hr.)	Water Removed (gal)	Cumulative Volume (gal)	Water Level (feet)	Flow rate (GPM)	Water Temp (°C)	pH (std. Units)	Cond. ms/cm	Dissolved Oxygen (mg/l)	Turbidity NTU	ORP (mV) +/-	Remarks (e.g. water clarity / sampled)
MW39	1702	1.5	1.5		.07	24.30	7.16	1.963	1.60	605	-155.6	3/13/12
MW39	1709	~~2.0~~ 0.5	2.0		.07	24.09	7.14	1.974	1.30	235	-173.9	
MW39	1716	.5	2.5		.07	24.18	7.12	1.972	1.14	105	-195.3	
MW38	1703	1.0	1.0		.07	22.48	7.28	0.846	.97	712	-216.7	
MW38	1710	.5	1.5		.07	22.52	7.26	0.846	.86	475	-214.7	
MW38	1717	.5	2.0		.07	22.49	7.26	0.846	.97	295	-215.8	
Decon 1/20	0950	—	—		—	21.98	12.07	3.741	~~1.28~~	—	-85.2	DO = 1.28
MW34	1320	1.0	1.0		.07	21.96	7.24	2.213	1.54	753	-160.1	3/14/12
MW34	1330	1.0	2.0		.07	22.30	7.35	2.198	0.92	297	-160.9	
MW34	1340	1.0	3.0		.07	22.35	7.35	2.199	0.98	159	-170.2	
MW34	1350	1.0	4.0		.07	22.37	7.36	2.199	0.95	97	-171.3	
MW25	1422	1.0	1.0		.07	21.99	7.39	2.793	.65	471	-193.4	3/14/12
MW25	1435	.7	1.7		.07	21.98	7.45	2.800	.66	201	-179.8	
MW25	1456	2	3.7		.07	21.89	7.46	2.801	.72	95	-180.1	
MW24	1524	1.0	1.0		.07	23.24	7.13	0.298	1.93	693	-139.7	3/14/12
MW24	1545	2.0	3.0		.07	23.54	7.09	0.569	1.02	241	-140.3	
MW24	1606	2.0	2.0		.07	23.49	7.10	0.613	.55	89	-150.2	
MW26	1624	~~2.0~~ .5	.5		.07	23.45	7.19	1.239	.69	589	-169.5	3/14/12
MW26	1635	2.0	2.5		.07	23.44	7.20	1.25	.59	212	-170.1	
MW26	1650	1.5	4.0		.07	23.45	7.20	1.252	.60	105	-169.5	

Recorded By _____ Date _____

Checked By _____ Date _____

CRHR well Development

3/16/12

Loc	Time	Com Vol	Temp	pH	Cond mS/cm	DO mg/L	Turb	ORP mV
mw31	1135 1100m	2	24.93	7.74	1.819	1.07	478	-116.6
mw31	1149	3	24.95	7.51	1.820	1.00	163	-118.4
mw31	1206	4	25.00	7.52	1.82	.91	34.2	-119.0
mw30	1226	2	25.46	7.93	0.834	1.99	745	-121.0
mw30	1240	3	24.97	8.01	.845	1.29	345	-104.3
mw30	1254	4	24.97	1pm 7.95	.846	1.05	187	-100.9
mw35	1335	3	24.95	7.51	1.912	1.29	>1,000	-175.9
mw35	1349	4	25.12	7.79	1.915	1.27	650	-180.2
DUP ~~mw35~~ mw36	1412	2	25.11	7.89	1.003	.93	344	-100.2
mw36	1434	4	25.12	7.64	0.885	1.02	123	-100.0
mw37	1459	2	25.12	7.89	1.113	.85	296	-109.7
mw37	1518	4	25.10	7.90	1.115	.76	304	-110.3
mw33	1545	2	2509	7.88	1.679	.95	>1001	-199.8
mw33	1621	4	25.10	7.90	1.686	.69	234	-205.9
mw32	1649	2	26.14	7.49	1.435	.70	>1000	-215.9
mw32	1729	4	26.10	7.51	1.440	.65	279	-219.3

CANE well development.

3/19/12

Loc	Time	Cum Vol	Temp	pH	Cond	DO	Turb	orp mV
mw29	~~1505~~ 1448	1.0	26.24	7.75	1.593	.90	98	-195.8
mw29	1510	4.0	26.23	7.81	1.624	.79	48	-202.4
mw27	1523	START						
MW27	1540	1.0	26.99	7.92	1.23	.79	69	-214.9
mw27	1615	4.5	26.19	7.89	1.74	.21	6.9	-215.9
mw28	1620	1.5	26.25	7.91	6.89	.63	36	-295.8
mw28	1629	4.0	26.26	7.72	1.91	.60	29.1	-275.4

Geosyntec consultants

WELL DEVELOPMENT DATA FORM

Site Name: CRITE
Well Name: MW0022

Depth To Bottom:
(Initial) 70
(Final) 70

Static Water Level:
*- development conducted prior to well completion below grade.
(Initial) -*
(Final) -*

Field Cleaning of Equip: Yes
Measuring Point: TOC*
Casing I.D.: Schedule 40 PVC

Project Number: FR1681
Date Installed: 12-20-11
Date Developed: 12.21.11

Pump Type: Centrifugal
(Capacity) -

Well Volume: -

Geosyntec Representative: J. McKinnon
Drilling Firm Representative: Boart Longyear
Purge Water Containment: 55 gal drum

Time	Volume Removed (gal)	pH (SU)	Temp (°C)	Conductance (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	Comments
1325	0	-	-	-	-	-	-	start
1416	43	-	-	-	663	-	-	light gray
1426	48	-	-	-	522	-	-	light gray
1430	51	-	-	-	471	-	-	end
								** unable to
								collect parameters
								with YSI 556 MPS
								due to centrifugal
								pump.

Geosyntec consultants

WELL DEVELOPMENT DATA FORM

Site Name: CRHE
Well Name: MW0023

Depth To Bottom:
(Initial) 70
(Final) 70

Static Water Level:
*-development conducted prior to well completion below grade.
(Initial) - *
(Final) - *

Field Cleaning of Equip: Yes
Measuring Point: TOC*
Casing I.D.: Schedule 40 PVC

Project Number: FR1681
Date Installed: 12.20.11
Date Developed: 12.21.11

Pump Type: Centrifugal
(Capacity) -

Well Volume: -

Geosyntec Representative: J. McKinnon
Drilling Firm Representative: Boart Longyear
Purge Water Containment: 55 gal drum

Time	Volume Removed (gal)	pH (SU)	Temp (°C)	Conductance (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	Comments
0758	0	-	-	-	-	-	-	Start
0810	40	-	-	-	475	-	-	light gray
0820	50	-	-	-	405	-	-	light gray
0837	60	-	-	-	> 1000	-	-	light gray
0853	70	-	-	-	> 1000	-	-	light gray
0927	95	-	-	-	450	-	-	light gray
0940	102	-	-	-	401	-	-	end
								** unable to collect parameters with YSI 556 MPS due to centrifugal pump.

Well Development/Purge Log

Project Name: CRMR Project No.: FR1681

Facility: Location:

PID/FID Readings: (Ambient) (Well Mouth)

Initial Levels: (Product) (Water)

Sampling Depth: ft bgs

Pump ☐ Bail ☐ Avg. Rate: GPM Total Gal. Extracted:

Water Column Length: ft Well Volumes Extracted:

Disposition of Discharge Water:

Specific Capacity: (gpm/ft. drawdown) After Hrs.

Well Information

Number:
Location: See Bleeder
Datum:
Elev. Datum Point:
Top Of Casing Elev.: ft msl
Well Diameter:
Well Depth: ft
Well Material:

Equipment Information

Bailer No.:
Pump No.: Geopump
Interface Probe No.:
Sounder No.:
pH Meter No.: See cal form
Conductivity Meter No.:
Thermometer No.:
D.O. Meter No.:
Turbidity Meter No.:
ORP Meter No.:

	Time (24 hr.)	Water Removed (gal)	Cumulative Volume (gal)	Water Level (feet)	Flow rate (GPM)	Water Temp (°C)	pH (std. Units)	Cond. ms/cm	Dissolved Oxygen (mg/l)	Turbidity NTU	ORP (mV) +/-	Remarks (e.g. water clarity / sampled)
MW39	1702	1.5	1.5		.07	24.30	7.16	1.963	1.60	605	-155.6	3/13/12
MW39	1709	~~2.0~~ 0.5	2.0		.07	24.09	7.14	1.974	1.30	235	-173.9	
MW39	1716	.5	2.5		.07	24.18	7.12	1.972	1.14	105	-195.3	
MW38	1703	1.0	1.0		.07	22.48	7.28	0.846	.97	712	-216.7	
MW38	1710	.5	1.5		.07	22.52	7.26	0.846	.86	475	-214.7	
MW38	1717	.5	2.0		.07	22.49	7.26	0.846	.97	295	-215.8	
Decon 1/20	0950	—	—		—	21.98	12.07	3.741	~~1.28~~	—	-85.2	DO = 1.28
MW34	1320	1.0	1.0		.07	21.96	7.24	2.213	1.54	753	-160.1	3/14/12
MW34	1330	1.0	2.0		.07	22.30	7.35	2.198	0.92	297	-160.9	
MW34	1340	1.0	3.0		.07	22.35	7.35	2.199	0.98	159	-170.2	
MW34	1350	1.0	4.0		.07	22.37	7.36	2.199	0.95	97	-171.3	
MW25	1422	1.0	1.0		.07	21.99	7.39	2.793	.65	471	-193.4	3/14/12
MW25	1435	.7	1.7		.07	21.98	7.45	2.800	.66	201	-179.8	
MW25	1456	2	3.7		.07	21.89	7.46	2.801	.72	95	-180.1	
MW24	1524	1.0	1.0		.07	23.24	7.13	0.298	1.93	693	-139.7	3/14/12
MW24	1545	2.0	3.0		.07	23.54	7.09	0.569	1.02	241	-140.3	
MW24	1606	2.0	2.0		.07	23.49	7.10	0.613	.55	89	-150.2	
MW26	1624	~~2.0~~ .5	.5		.07	23.45	7.19	1.239	.69	589	-169.5	3/14/12
MW26	1635	2.0	2.5		.07	23.44	7.20	1.25	.59	212	-170.1	
MW26	1650	1.5	4.0		.07	23.45	7.20	1.252	.60	105	-169.5	

Recorded By _____ Date _____

Checked By _____ Date _____

CRHR well Development

3/16/12

Loc	Time	Com Vol	Temp	pH	Cond mS/cm	DO mg/L	Turb	ORP mV
mw31	1135 1100m	2	24.93	7.74	1.819	1.07	478	-116.6
mw31	1149	3	24.95	7.51	1.820	1.00	163	-118.4
mw31	1206	4	25.00	7.52	1.82	.91	34.2	-119.0
mw30	1226	2	25.46	7.93	0.834	1.99	745	-121.0
mw30	1240	3	24.97	8.01	.845	1.29	345	-104.3
mw30	1254	4	24.97	1pm 7.95	.846	1.05	187	-100.9
mw35	1335	3	24.95	7.51	1.912	1.29	>1,000	-175.9
mw35	1349	4	25.12	7.79	1.915	1.27	650	-180.2
DUP ~~mw35~~ mw36	1412	2	25.11	7.89	1.003	.93	344	-100.2
mw36	1434	4	25.12	7.64	0.885	1.02	123	-100.0
mw37	1459	2	25.12	7.89	1.113	.85	296	-109.7
mw37	1518	4	25.10	7.90	1.115	.76	304	-110.3
mw33	1545	2	2509	7.88	1.679	.95	>1001	-199.8
mw33	1621	4	25.10	7.90	1.686	.69	234	-205.9
mw32	1649	2	26.14	7.49	1.435	.70	>1000	-215.9
mw32	1729	4	26.10	7.51	1.440	.65	279	-219.3

CANE well development.

3/19/12

Loc	Time	Cum Vol	Temp	pH	Cond	DO	Turb	orp mV
mw29	~~1505~~ 1448	1.0	26.24	7.75	1.593	.90	98	-195.8
mw29	1510	4.0	26.23	7.81	1.624	.79	48	-202.4
mw27	1523	START						
MW27	1540	1.0	26.99	7.92	1.23	.79	69	-214.9
mw27	1615	4.5	26.19	7.89	1.74	.21	6.9	-215.9
mw28	1620	1.5	26.25	7.91	6.89	.63	36	-295.8
mw28	1629	4.0	26.26	7.72	1.91	.60	29.1	-275.4

Geosyntec consultants

WELL DEVELOPMENT DATA FORM

Site Name: CRITE
Well Name: MW0022

Depth To Bottom:
(Initial) 70
(Final) 70

Static Water Level:
*- development conducted prior to well completion below grade.
(Initial) -*
(Final) -*

Field Cleaning of Equip: Yes
Measuring Point: TOC*
Casing I.D.: Schedule 40 PVC

Project Number: FR1681
Date Installed: 12-20-11
Date Developed: 12.21.11

Pump Type: Centrifugal
(Capacity) -

Well Volume: -

Geosyntec Representative: J. McKinnon
Drilling Firm Representative: Boart Longyear
Purge Water Containment: 55 gal drum

Time	Volume Removed (gal)	pH (SU)	Temp (°C)	Conductance (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	Comments
1325	0	-	-	-	-	-	-	start
1416	43	-	-	-	663	-	-	light gray
1426	48	-	-	-	522	-	-	light gray
1430	51	-	-	-	471	-	-	end
								** unable to
								collect parameters
								with YSI 556 MPS
								due to centrifugal
								pump.

Geosyntec consultants

WELL DEVELOPMENT DATA FORM

Site Name: CRHE
Well Name: MW0023

Depth To Bottom:
(Initial) 70
(Final) 70

Static Water Level:
*-development conducted prior to well completion below grade.
(Initial) - *
(Final) - *

Field Cleaning of Equip: Yes
Measuring Point: TOC*
Casing I.D.: Schedule 40 PVC

Project Number: FR1681
Date Installed: 12.20.11
Date Developed: 12.21.11

Pump Type: Centrifugal
(Capacity) -

Well Volume: -

Geosyntec Representative: J. McKinnon
Drilling Firm Representative: Boart Longyear
Purge Water Containment: 55 gal drum

Time	Volume Removed (gal)	pH (SU)	Temp (°C)	Conductance (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	Comments
0758	0	-	-	-	-	-	-	Start
0810	40	-	-	-	475	-	-	light gray
0820	50	-	-	-	405	-	-	light gray
0837	60	-	-	-	> 1000	-	-	light gray
0853	70	-	-	-	> 1000	-	-	light gray
0927	95	-	-	-	450	-	-	light gray
0940	102	-	-	-	401	-	-	end
								** unable to collect parameters with YSI 556 MPS due to centrifugal pump.

APPENDIX K

FIELD FORMS
(electronic copy only)

DAILY LOGS

Geosyntec consultants

DAILY FIELD REPORT

Project: FR1681 CRHEA
Project No.: FR1681
Date: 6/22/09
Task No.:
Contractors: EDS- Chris Phelps & Keith Olson; KB Labs - Herb Kelley

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

Call Duty office ok to dig. Calibrate and load equipment.
0630 Arrive at office.
0800 Meet EDS & KB Labs at badging station.
0830 On site, Call Security, Utility locate is being completed.
0845 Hand auger Location A (DPT0017) To 5'. Sample at 8-12', 16-20', 26-30', & 36-40'.
1000 Leave site to get spill pallet for decon ing.
1030 Back on site, Decon rods & continue sampling DPT0017 at 41-45', 46-50' and 61-65'
1145 Lunch Break
1230 On site. Decon rods. Hand auger Location B (DPT0018) and Sample at 8-12', 16-20', 26-30', 36-40', 41-45', 46-50' and 61-65'.
1445 Decon Rods.
1500 Take air conditioning break due to slight heat stress.
1515 Trimmy grout DPT0017.
1545 Hand auger location C (DPT0019) To 5'. Sample at 10', 18', 28' 38' 43' 48' and 63'. Trimmy grout.
1800 Load equipment. Dispose of IDW at CCF.
1830 Leave site.

~~Plans/Future Activities~~ NO

Janet Barfus 6/22/09
Signature/Date

Geosyntec consultants

engineers | scientists | innovators

DAILY FIELD REPORT

PROJECT: NASA CRHF

LOCATION: CAPE CANAVERAL, FL PROJECT NO.: FR1681 TASK NO: 3.0

DESCRIPTION: DPT GW SAMPLING DATE: 6/23/09

CONTRACTOR: EOS → CHRIS, KEITH; RB LABS - TUAN

WEATHER: OVERCAST, ~80°F, WIND FROM WEST < 5MPH

645	ARRIVE TO OFFICE, ALEX RIVERA, CHECK IN W/SAM BARFUS / BEGIN CALIBRATION OF GW EQUIPMENT / LOAD EQUIPMENT INTO VEHICLE
715	ARRIVE AT BADGING STATION TO OBTAIN BADGE
730	MOBILIZE TO RSC, FL → CONTRACTOR'S ROAD, CRHF FACILITY
800	EOS AND MOBILAB ONSITE → EOS BEGINS TRIMM GROUTING OF DPT-18 / DISCUSS PLAN - CONTACTS W/ J.B.
830	COMPLETE GROUTING OF DPT-18 → MOBILIZE TO DPT-20 / HAND AUGER TO 5 FT BLS
850	DPT-20 - PURGE INTERVAL 8-12' BLS @ LOW FLOW TO AVOID RECHARGE
914	COMPLETE PURGE - SAMPLE DPT-20 (8-12') / PURGED ~0.50 GAL
920	BEGIN DPT TO 20 FT BLS
926	PURGE DPT-20 (16-20') / PURGE ~0.50 GAL PRIOR TO SAMPLING
938	SAMPLE DPT-20 (16-20') / BEGIN DPT TO 30 FBLS
945	BEGIN PURGE OF DPT 26-30 FT BLS
957	SAMPLE DPT-20 (26-30) / PURGED ~0.50 GAL PRIOR TO SAMPLING
1007	REACH DPT-20 (36-40) / BEGIN PURGE
1018	SAMPLE DPT-20 (36-40) / PURGED ~0.75 GAL PRIOR TO SAMPLING
1020	DRILLERS MOBILIZE TO DECON STATION TO DECON SCREENS
1030	CONTINUE DPT TO 45 FT BLS
1040	BEGIN PURGE OF DPT20 (41-45)
1053	SAMPLE DPT 20 (41-45) / PARGE ~0.75 GAL. PRIOR TO SAMPLING
1105	REACH DPT-20 (46-50) / BEGIN PURGE
1119	SAMPLE DPT-20 (46-50) / PURGED ~0.75 GAL PRIOR TO SAMPLING
1134	REACH DPT-20 (61-65') / BEGIN INITIAL PURGE

COPY TO: _____ PER: ALEX RIVERA

Geosyntec consultants

engineers | scientists | innovators

FR1681 – 3
NASA CRHE
6/23/09

1145	SAMPLE DPT-20 (61-65) / PURGED ~0.50 GAL PRIOR TO SAMPLING
1200	COMPLETE SAMPLING — MOBILIZE TO LUNCH
1245	DRILLERS BEGIN TREMMY GROUT OF DPT-19 / CONTACT REBECCA DEPRATO REGARDING THE COMPLETION OF DATA FOR ALL INTERVALS OF DPT-20 — LAB TECH TUAN STATES HE WILL EMAIL RESULTS — R.D. STATES SHE WILL REVIEW RESULTS TO DETERMINE NEXT LOCATION (DPT-22)
1315	COMPLETE GROUT OF DPT-19 / MOBILIZE TO PROPOSED LOCATION OF DPT-21 / BEGIN HAND AUGER OF DPT-21 TO 5 FT BLS
1330	BEGIN DPT OF DPT-21 (8-12)
1328	BEGIN INITIAL PURGE OF DPT-21 (8-12)
1338	COMPLETE PURGE (~0.50 GAL) — BEGIN SAMPLING
1345	CONTINUE DPT-21 TO 20 FT BLS
1354	BEGIN INITIAL PURGE OF DPT-21 (16-20)
1412	REACH DPT-21 (26-30) / BEGIN INITIAL PURGE
1421	COMPLETE PURGE (~1.0 GAL) - BEGIN SAMPLING
1425	COMPLETE SAMPLING — DRILLERS TO DECON SCREENS
1435	DRILLERS RESUME DRILLING AT DPT-21 (36-40)
1443	DPT-21 (36-40) INITIAL PURGE
1453	COMPLETE PURGE (~0.75 GAL) - BEGIN SAMPLING
1458	COMPLETE SAMPLING — CONTINUE DPT TO 45 FT
1506	BEGIN INITIAL PURGE OF DPT-21 (41-45)
1517	COMPLETE PURGE (~0.75 GAL) BEGIN SAMPLING
1522	COMPLETE SAMPLING — CONTINUE DPT TO 50 FT
1533	BEGIN INITIAL PURGE OF DPT-21 (46-50)
1545	COMPLETE PURGE (~1.0 GAL) BEGIN SAMPLING
1550	COMPLETE SAMPLING — CONTINUE DPT TO 65 FT
1602	BEGIN INITIAL PURGE OF DPT-21 (61-65)
1614	COMPLETE PURGE (~1.0 GAL). BEGIN SAMPLING
1620	COMPLETE SAMPLING - MOBILIZE TO DPT-22 (8-12) / BEGIN HAND AUGER TO 5 FT BLS / DRILLERS BEGIN DECON OF SCREENS

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1642 - BEGIN INITIAL PURGE OF DPT-22 (8-12)
1654 - COMPLETE PURGE OF DPT-22 (8-12) / BEGIN SAMPLING / ~0.5 GAL PURGED
1655 - COMPLETE SAMPLING AND CONTINUE DPT TO 20 FT BLS
1700 - BEGIN INITIAL PURGE OF DPT-22 (16-20')
1708 - COMPLETE PURGE OF DPT-22 (16-20) / BEGIN SAMPLING / ~0.5 GAL PURGED
1712 - COMPLETE SAMPLING AND CONTNUE DPT TO 30 FT BLS
1715 - BEGIN INITIAL PURGE OF DPT-22 (26-30')
1724 - COMPLETE PURGE OF DPT-22 (26-30) (~0.5 GAL) / BEGIN SAMPLING
1728 - COMPLETE SAMPLING OF DPT-22 (26-30) / ADVANCE TO 40' BLS
1739 - BEGIN INITIAL PURGE OF DPT-22 (36-40)
1745 - COMPLETE PURGE (~0.5 GAL) / BEGIN SAMPLING OF DPT-22 (36-40)
1750 - COMPLETE SAMPLING OF DPT-22 (36-40) / DRILLERS BREAK DOWN EQUIPMENT AND CONE OFF DPT-22 LOCATION FOR COMPLETION ON 6/24/09 / CONTACT R.D. REGARDING PROGRESS OF GW INVESTIGATION AND PLANNED LOCATION FOR 6/24/09
1815 - LEAVE SITE / DRILLERS LEAVE SITE

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DAILY FIELD REPORT

PROJECT: NASA CRHE

LOCATION: KSC, FL PROJECT NO.: FR1651 TASK NO: 3

DESCRIPTION: DPT GW SAMPLING DATE: 6/24/09

CONTRACTOR: EPS → CHRIS, KEITH ; RBLABS → TUAN

WEATHER: SUNNY, NO WIND, ~80°F

0645 - ARRIVE AT OFFICE / ALEX RIVERA - CALIBRATE GW EQUIPMENT (SEE CAL. FORM / OBTAIN CLEARANCE FROM NASA SUIT OFFICE FOR SITE WORK

0715 - MOBILIZE TO KSC, FL

0745 - ARRIVE ON SITE / DRILLERS HAVE ADVANCED TO 45' AT DPT-22

0748 - BEGIN PURGE OF DPT-22 (41-45) / SAFETY TAILGATE (SEE HASP)

0759 - COMPLETE PURGE OF DPT-22 (41-45) / BEGIN SAMPLING / TUAN ARRIVES ON-SITE

0805 - COMPLETE SAMPLING OF DPT-22 (41-45) (~.5 GAL) / CONTINUE DPT TO 50'

0812 - BEGIN INITIAL PURGE OF DPT-22 (46-50)

0822 - COMPLETE PURGE OF DPT-22 (46-50) ~0.5 GAL PURGED / BEGIN SAMPLING

0827 - COMPLETE SAMPLING OF DPT-22 (46-50) / CONTINUE DPT TO 65'

0837 - COMPLETE DPT-22 (61-65) / BEGIN INITIAL PURGE

0851 - COMPLETE PURGE OF DPT-22 (61-65) ~1.0 GAL PURGED / BEGIN SAMPLING

0858 - COMPLETE SAMPLING OF DPT-22 (61-65) / DRILLERS MOBILIZE TO DEON AREA FOR DEON OF SCREENS.

0915 - MOBILIZE TO IDW AREA FOR DISPOSAL OF IDW / HAND AUGER DPT-23 TO 5'

0935 - BEGIN DPT TO 12' AT DPT-23 LOCATION

0948 - REACH DPT-23 (8-12) / BEGIN INITIAL PURGE

0958 - COMPLETE PURGE - BEGIN SAMPLING DPT-23 (8-12) / ~0.50 GAL PURGED

1002 - COMPLETE SAMPLING - ADVANCE TO 20' AT DPT-23

1003 - BEGIN INITIAL PURGE OF DPT-23 (16-20)

1011 - COMPLETE PURGE (~0.5 GAL) / BEGIN SAMPLING DPT-23 (16-20)

1018 - BEGIN INITIAL PURGE OF DPT-23 (26-30)

1026 - COMPLETE PURGE (~0.5 GAL) / BEGIN SAMPLING DPT-23 (26-30')

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1029	COMPLETE SAMPLING OF DPT-23 (26-30) / CONTINUE ADVANCE TO 40'
1036	REACH DEPTH OF 40' — BEGIN INITIAL PURGE OF DPT-23 (36-40)
1045	COMPLETE PURGE (~0.50 GAL) OF DPT-23 (36-40) / BEGIN SAMPLING
1050	COMPLETE SAMPLING OF DPT-23 (36-40) / DRILLERS TO DECON SCREENS / SPEAK WITH R.D. REGARDING DPT-24 LOCATION (~25' EAST OF DPT-20)
1105	DRILLERS, A.R. LEAVE FOR LUNCH
1140	RESUME DRILLING AT DPT-23 TO 45' BLS
1147	BEGIN INITIAL PURGE OF DPT-23 (41-45)
1156	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-23 (41-45)
1159	COMPLETE SAMPLING OF DPT-23 (41-45) / CONTINUE TO 50' BLS
1210	BEGIN INITIAL PURGE OF DPT-23 (46-50)
1221	COMPLETE PURGE → BEGIN SAMPLING OF DPT-23 (46-50) / ~0.50 GAL PURGED
1224	COMPLETE SAMPLING OF DPT-23 (46-50) / CONTINUE TO 65' BLS
1237	OBTAIN DEPTH OF 65' → BEGIN INITIAL PURGE OF DPT-23 (61-65)
1249	COMPLETE PURGE (~1.0 GAL PURGED) / BEGIN SAMPLING DPT-23 (61-65)
1253	COMPLETE SAMPLING / DRILLERS MOB TO DECON SCREENS
1311	BEGIN HAND AUGER OF DPT-24 LOCATION TO 5' FOR UTILITY CLEARANCE
1315	BEGIN DPT TO 12 FT BLS / CHRIS (EPS) LEAVES SITE TO RETRIEVE APPT'L RODS FOR DEEP INTERVAL AT DPT-20
1321	BEGIN INITIAL PURGE OF DPT-24 (8-12')
1331	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-24 (8-12)
1345	COMPLETE SAMPLING OF DPT-24 (8-12) / ADVANCE TO 20'
1345	BEGIN INITIAL PURGE OF DPT-24 (16-20)
1345	UNABLE TO PURGE DUE TO PARTIALLY OPEN SCREEN, WILL REDRILL TO DEPTH USING NEW RODS
1352	DEPTH REACHED, BEGIN NEW PURGE FOR DPT-24 (16-20)
1401	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-24 (16-20)
1404	COMPLETE SAMPLING OF DPT-24 (16-20) / ADVANCE TO 30'

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1411	BEGIN INITIAL PURGE OF DPT-24 (26-30')
1418	CHRIS (EDS) RETURNS TO SITE W/ ADDT'L RODS
1422	PURGING COMPLETE - BEGIN SAMPLING DPT-24 (26-30) (PURGED ~0.50 GAL)
1425	COMPLETE SAMPLING DPT-24 (26-30) / DRILLERS BEGIN DECON. OF SCREENS IN DECON AREA
1435	CONTINUE ADVANCE. TO 40' BLS
1440	BEGIN INITIAL PURGE OF DPT-24 (36-40)
1449	COMPLETE PURGE OF DPT-24 (36-40) / BEGIN SAMPLING / (PURGED ~0.50 GAL)
1452	COMPLETE SAMPLING OF DPT-24 (36-40) / ADVANCE TO 45'
1501	BEGIN INITIAL PURGE OF DPT-24 (41-45)
1511	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-24 (41-45)
1514	COMPLETE SAMPLING OF DPT-24 (41-45) / ADVANCE TO 50'
1524	BEGIN INITIAL PURGE OF DPT-24 (46-50)
1534	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-24 (46-50)
1538	COMPLETE SAMPLING OF DPT-24 (46-50) / ADVANCE TO 65'
1553	BEGIN INITAL PURGE OF DPT-24 (61-65)
1602	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-24 (61-65)
1605	COMPLETE SAMPLING OF DPT-24 (61-65) / MOBILIZE TO DPT-20 TO ADVANCE TO 75' PER R.D. REQUEST / DRILLERS BEGIN DECON OF SCREENS IN DECON AREA.
1631	BEGIN DPT ADVANCE TO 75FT BLS
1643	BEGIN INITIAL PURGE OF DPT-20 (71-75)
1653	COMPLETE PURGE (~1.0 GAL) / BEGIN SAMPLING DPT-20 (71-75)
1656	COMPLETE SAMPLING DPT-20 (71-75) / MOBILIZE TO DPT-22
1703	BEGIN DPT ADVANCE TO 75FT BLS AT DPT-22
1718	BEGIN INITIAL PURGE OF DPT-22 (71-75)
1729	COMPLETE PURGE / BEGIN SAMPLING / DRILLERS SURFACE GROUT DPT-21 AND DPT-23
1800	COMPLETE ALL SAMPLES / DRILLERS AND AR. LEAVE SITE / CONTACT JIM JOHNSON REGARDING STATUS UPDATE

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DAILY FIELD REPORT

PROJECT: NASA CRHE

LOCATION: KSC, FL PROJECT NO.: FR1681 TASK NO: 3

DESCRIPTION: DPT GW INVESTIGATION DATE: 6/25/08

CONTRACTOR: EDS → CHRIS, KEITH ; KB LABS → TUAN

WEATHER: SUNNY, ~80°F, NO WIND

645	ARRIVE AT OFFICE, ALEX RIVERA / BEGIN CALIBRATION OF GW SAMPLING EQUIPMENT
700	CONTACT NASA DUTY OFFICE FOR CLEARANCE AT CRHE AREA - APPROVED
705	MOBILIZE TO KSC, FL
730	ARRIVE ON SITE - DRILLERS HAND AUGERING DPT-25 TO 5'
735	MOBILIZE TO IDW DISPOSAL AREA
800	RETURN TO SITE / DRILLERS ADVANCE TO 12' BLS @ DPT-25 LOCATION
811	BEGIN INITIAL PURGE OF DPT-25 (5-12) / UTILITY LOCATE ARRIVES / RELAY PLAN FOR DPT LOCATIONS (~12.5' STEPOUTS AROUND MW-19.) - PER REBECCA DEPRATO / SAFETY TAILGATE MEETING
817	COMPLETE PURGE OF DPT-25 (5-12) / ~0.50 GAL. / BEGIN SAMPLING
820	COMPLETE SAMPLING DPT-25 (5-12) / DRILLERS ADVANCE TO 20'
825	DEPTH REACHED - BEGIN INITIAL PURGE OF DPT-25 (16-20)
831	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING
833	COMPLETE SAMPLING OF DPT-25 (16-20) / ADVANCE TO 30'
835	DRILLERS MOB TO DECON SCREENS
845	OBTAIN DEPTH / INITIAL PURGE OF DPT-25 (26-30)
855	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING
858	COMPLETE SAMPLING OF DPT-25 (26-30) / ADVANCE TO 40' BLS
905	BEGIN INITIAL PURGE OF DPT-25 (36-40)
916	COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-25 (36-40)
919	COMPLETE SAMPLING OF DPT-25 (36-40) / ADVANCE TO 45' BLS
932	BEGIN INITIAL PURGE OF DPT-25 (41-45)

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941	COMPLETE PURGE / BEGIN SAMPLING DPT-25 (41-45)
945	COMPLETE SAMPLING FOR DPT-25 (41-45) / DRILLERS ADVANCE TO 50' BGS
953	BEGIN INITIAL PURGE OF DPT-25 (46-50)
1003	COMPLETE PURGE / BEGIN SAMPLING DPT-25 (46-50)
1006	COMPLETE SAMPLING DPT-25 (46-50) / DRILLERS TO DECON SCREENS
1017	DRILLERS RESUME DPT ADVANCE TO 65' BLS @ DPT-25
1027	BEGIN INITIAL PURGE OF DPT-25 (61-65) / SPEAK WITH R.D. REGARDING LOCATION OF DPT-26 (~25' WEST OF DPT-25)
1036	COMPLETE PURGE OF DPT-25 (61-65) / BEGIN SAMPLING (~1.0 GAL PURGED)
1039	COMPLETE SAMPLING DPT-25 (61-65) / MOBILIZE TO DPT-26
1042	BEGIN HAND AUGER OF DPT-26 TO 5' BLS
1056	BEGIN DPT @ DPT-26 TO 12' BLS
1059	BEGIN INITIAL PURGE OF DPT-26 (8-12)
1110	COMPLETE PURGE OF DPT-26 (8-12) / BEGIN SAMPLING / ~0.50 GAL
1115	COMPLETE SAMPLING OF DPT-26 (8-12) / LEAVE FOR LUNCH
1145	RETURN TO SITE / DRILLERS RESUME DPT ADVANCE TO 20' BLS
1201	BEGIN INITIAL PURGE OF DPT-26 (16-20)
1210	COMPLETE PURGE / BEGIN SAMPLING DPT-26 (16-20) / PURGE ~ 1.0 GAL
1213	COMPLETE SAMPLING OF DPT-26 (16-20) / ADVANCE DPT TO 30' BLS
1219	BEGIN INITIAL PURGE OF DPT-26 (26-30')
1229	COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING OF DPT-26 (26-30)
1232	COMPLETE SAMPLING / DRILLERS TO DECON SCREENS.
1239	DRILLERS CONTINUE TO ADVANCE DPT-26 TO 40' BLS
1247	~~BEGIN~~ BEGIN INITIAL PURGE OF DPT-26 (36-40)
1257	COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING OF DPT-26 (36-40)
1300	COMPLETE SAMPLING / DRILLERS ADVANCE TO 45' BLS
1311	BEGIN INITIAL PURGE OF DPT-26 (41-45)
1321	COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING OF DPT-26 (41-45)
1324	COMPLETE SAMPLING / DRILLERS ADVANCE TO 50' BLS

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1333	BEGIN INITIAL PURGE OF DPT-26 (46-50)
1343	COMPLETE PURGE (~1.75 GAL) / BEGIN SAMPLING DPT-26 (46-50)
1346	COMPLETE SAMPLING OF DPT-26 (46-50) / ADVANCE TO 65 FT BLS
1359	BEGIN PURGE OF DPT-26 (61-65)
1409	COMPLETE PURGE (~1.0 GAL) / BEGIN SAMPLING DPT-26 (61-65)
1412	COMPLETE SAMPLING OF DPT-26 (61-65) / DECON OF SCREENS BY DRILLERS / SET UP @ DPT-27 LOCATION
1425	BEGIN HAND AUGER OF DPT-27 TO 5' BLS
1435	BEGIN DPT ADVANCE TO 12' BLS
1438	BEGIN PURGE OF DPT-27 (8-12)
1452	COMPLETE PURGE OF DPT-27 (8-12) / ~0.5 GAL / BEGIN SAMPLING
1455	COMPLETE SAMPLING DPT-27 (8-12) / ADVANCE TO 20' BLS
1458	BEGIN PURGE OF DPT-27 (16-20)
1508	COMPLETE PURGE OF DPT-27 (16-20) / ~0.5 GAL / BEGIN SAMPLING
1511	COMPLETE SAMPLING OF DPT-27 (16-20) / ADVANCE TO 30' BLS
1516	BEGIN PURGE OF DPT-27 (26-30) / CONTACT NASA WEATHER OFFICE DUE TO APPROACH OF STORM CLOUDS FROM NW — TOLD IN PHASE I UNTIL 20:00
1527	COMPLETE PURGE (~0.5 GAL) / BEGIN SAMPLING OF DPT-27 (26-30)
1530	COMPLETE SAMPLING OF DPT-27 (26-30) / ADVANCE TO DEPTH 40' BLS
1537	BEGIN PURGE OF DPT-27 (36-40)
1547	COMPLETE PURGE OF DPT-27 (36-40) ~0.50 GAL / BEGIN SAMPLING
1550	COMPLETE SAMPLING OF DPT-27 (36-40) / DRILLERS TO DECON SCREENS
1557	DRILLERS CONTINUE DPT ADVANCE TO 45' BLS @ DPT-27 / SECOND DRILLER BEGINS GROUTING PROCESS FOR DPT 20, 22, 24, 25
1607	BEGIN PURGE OF DPT-27 (41-45)
1618	COMPLETE PURGE (~1.0 GAL) / BEGIN SAMPLING DPT-27 (41-45)
1621	COMPLETE SAMPLING OF DPT-27 (41-45) / COMPLETE GROUTING OF DPT 20, 22, 24, 25 / ADVANCE TO 50' BLS

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1631 - BEGIN PURGE OF DPT-27(46-50)
1642 - COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING DPT-27(46-50)
1645 - COMPLETE SAMPLING OF DPT-27(46-50) / ADVANCE DPT TO 65' BGS
1656 - BEGIN PURGE OF DPT-27(61-65)
1704 - COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-27(61-65)
1710 - COMPLETE SAMPLING / DRILLERS TO DECON AREA TO DECON SCREENS
1720 - MOBILIZE TO IDW AREA TO DISPOSE OF IDW
1745 - RETURN TO SITE / MOBILIZE GEOPROBE TO DPT-28 LOCATION
1755 - GEOPROBE UNABLE TO SETUP AT PROPOSED MARKED AREA / CONTACT R.D. REGARDING PROPOSED LOCATION
1810 - LEAVE SITE / DRILLERS AND GEO

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DAILY FIELD REPORT

PROJECT: NASA CRHE

LOCATION: KSC, FL PROJECT NO.: FRC681 TASK NO: 3

DESCRIPTION: DPT GW INVESTIGATION DATE: 6/26/07

CONTRACTOR: EDS → CARLS, KEITH ; KB LABS → TUAN

WEATHER: SUNNY, ~78° F, NO WIND

630 ARRIVE AT OFFICE / BEGIN EQUIPMENT EVALUATION / CALIBRATION

650 COMPLETE CALIBRATION / MOBILIZE TO KSC, FL / CONTACT NASA DUTY OFFICE — ALL CLEAR

705 ALEX RIVERA ARRIVE ON SITE / DRILLERS HAVE BEGUN H.A. OF DPT-28 (PER REBECCA DEPRATO CONVERSATION ON 6/25/07) / ADVANCE DPT TO 12' BLS / SAFETY OVERVIEW W/ DRILLERS

710 BEGIN INITIAL PURGE OF DPT-28 (8-12)

724 COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-28 ~~(16-20)~~ (8-12)

727 COMPLETE SAMPLING DPT-28 ~~(16-20)~~ (8-12) / DRILLERS ADVANCE TO 20' BLS

731 BEGIN INITIAL PURGE OF DPT-28 (16-20)

739 COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-28 (16-20)

742 COMPLETE SAMPLING DPT-28 (16-20) / DRILLERS ADVANCE TO 30' BLS

748 BEGIN INITIAL PURGE OF DPT-28 (26-30) / TUAN (KB) ARRIVES

757 COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING DPT-28 (26-30)

800 COMPLETE SAMPLING DPT-28 (26-30) / ADVANCE TO 40' BLS

802 BEGIN INITIAL PURGE OF DPT-28 (26-30)

817 COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-28 (36-40)

820 COMPLETE SAMPLING DPT-28 (36-40) / DRILLERS TO DECON / HEALTH AND SAFETY OVERVIEW / TUAN

830 CONTINUE ADVANCE TO 45' BLS

837 BEGIN INITIAL PURGE (~0.50 GAL) /

844 COMPLETE PURGE / BEGIN SAMPLING DPT-28 (41-45)

847 COMPLETE SAMPLING DPT-28 (41-45) / ADVANCE TO 50' BLS

856 BEGIN INITIAL PURGE OF DPT-28 ~~(41-45)~~ (45-50)

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906 - COMPLETE PURGE / ~0.50 GAL / BEGIN SAMPLING OF DPT-28 (46-50)
910 - COMPLETE SAMPLING OF DPT-28 (46-50) / ADVANCE TO 65' BLS
921 - BEGIN INITIAL PURGE OF DPT-28 (61-65)
931 - COMPLETE PURGE (~1.0 GAL) / BEGIN SAMPLING OF DPT-28 (61-65)
934 - COMPLETE SAMPLING DPT-28 (61-65) / DRILLERS TO DECON SCREENS
944 - DRILLERS BEGIN HAND AUGER OF DPT-29 TO 5' BLS
952 - BEGIN ADVANCE OF DPT-29 (8-12)
955 - SCREEN OPENED PARTIALLY / REDRILL TO 12' BLS
958 - BEGIN PURGE OF DPT-29 (8-12)
1009 - COMPLETE PURGE (~0.50 GAL) / BEGIN SAMPLING DPT-29 (8-12)
1012 - COMPLETE SAMPLING DPT-29 (8-12) / ADVANCE TO 20' BLS
1014 - BEGIN PURGE OF DPT-29 (16-20)
1023 - COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING DPT-29 (16-20)
1025 - COMPLETE SAMPLING DPT-29 (16-20) / ADVANCE TO 30' BLS
1032 - BEGIN PURGE OF DPT-29 (26-30)
1041 - COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING DPT-29 (26-30)
1043 - COMPLETE SAMPLING DPT-29 (26-30) / ADVANCE TO 40' BLS
1051 - BEGIN PURGE OF DPT-29 (36-40)
1101 - COMPLETE PURGE OF DPT-29 (36-40) / BEGIN SAMPLING / (~0.5 GAL)
1104 - COMPLETE SAMPLING DPT-29 (36-40) / DRILLERS TO DECON SCREENS
1115 - LEAVE FOR LUNCH / ENTER PHASE I (PER NASA)
1145 - RETURN TO SITE / SPEAK W/ R.D. REGARDING DATA FROM MORNING LOCATIONS - RELAY INFO TO TUAN - WHO WILL FORWARD DATA TO R.D.
1156 - CONTINUE DPT ADVANCE TO 45' BLS @ DPT-29
1204 - BEGIN PURGE OF DPT-29 (41-45)
1214 - COMPLETE PURGE (~0.75 GAL) / BEGIN SAMPLING DPT-29 (41-45)
1216 - COMPLETE SAMPLING OF PPT-29 (41-45) ADVANCE TO 50' BLS
1227 - BEGIN PURGE OF DPT-29 (46-50)
1239 - COMPLETE PURGE (0.75 GAL) / BEGIN SAMPLING DPT-29 (46-50)

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1242 - COMPLETE SAMPLING DPT-29 (46-50) / ADVANCE TO 65' BLS
1254 - BEG IN PURGE OF DPT-29 (61-65)
1305 - COMPLETE PURGE (~1.0 GAL) / BEG IN SAMPLING OF DPT-29 (61-65)
1307 - COMPLETE SAMPLING DPT-29 (61-65) / DRILLERS TO DECON SCREENS / TELEPHONE CONJO W/ R.O. RE: DPT-30 LOCATION → 50' E of DPT-23
1323 - EDS BEGINS HAND AUGER OF DPT-30 TO 5' BLS
1335 - HEAVY STORM CLOUDS IN DISTANCE → CONTACT NASA WEATHER → TOLD VAB AREA CURRENTLY IN PHASE 2. → STOP WORK → RELAY INFO TO REBECCA. B.
1426 - NASA TO PHASE 1 → EDS ADVANCE TO 12' @ DPT-30
1429 - BEG IN PURGE OF DPT-30 (8-12') / DRILLERS BEG IN GROUT OF ALL LOCATIONS
1440 - COMPLETE PURGE (~0.50 GAL) / BEG IN SAMPLING DPT-30 (8-12)
1443 - COMPLETE SAMPLING DPT-30 (8-12) / ADVANCE TO 20' BLS
1447 - BEG IN PURGE OF DPT-30 (16-20)
1457 - COMPLETE PURGE (~0.50 GAL) / BEG IN SAMPLING DPT-30 (16-20)
1500 - COMPLETE SAMPLING DPT-30 (16-20) / ADVANCE TO 30' BLS
1506 - BEG IN PURGE OF DPT-30 (26-30)
1516 - COMPLETE PURGE OF DPT-30 (26-30) ~0.50 GAL / BEG IN SAMPLING / DRILLERS COMPLETE SURFACE GROUT OF ALL DPT LOCATIONS EXCEPT CURRENT LOCATION
1519 - COMPLETE SAMPLING OF DPT-30 (26-30) / ADVANCE TO 40' BLS
1524 - BEG IN PURGE OF DPT-30 (36-40)
1534 - COMPLETE PURGE (~0.50 GAL) / BEG IN SAMPLING DPT-30 (36-40)
1536 - COMPLETE SAMPLING OF DPT-30 (36-40) / DRILLERS TO DECON SCREENS.
1546 - RESUME DPT TO 45' BLS @ DPT-30
1552 - BEG IN PURGE OF DPT-30 (41-45)
1601 - COMPLETE PURGE (~1.0 GAL) / BEG IN SAMPLING DPT-30 (41-45)
1604 - COMPLETE SAMPLING DPT-30 (41-45) / ADVANCE TO 50' BLS
1612 - BEG IN PURGE OF DPT-30 (46-50)
1621 - COMPLETE PURGE (~0.75 GAL) / BEG IN SAMPLING DPT-30 (46-50)

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1624	COMPLETE SAMPLING DPT-30(46-50) / ADVANCE TO 65' BLS
1633	BEGIN PURGE OF DPT-30(61-65)
1643	COMPLETE PURGE (~1.0 GAL) / BEGIN SAMPLING DPT-30(61-65)
1645	COMPLETE SAMPLING OF DPT-30(61-65) / DRILLERS BEGIN TO GROUT ANY REMAINING OPEN DPT-LOCATIONS
1700	DRILLERS BEGIN TO BREAKDOWN EQUIPMENT AND DECON
1715	MOBILIZE TO IDW AREA TO DISPOSE OF IDW
1730	DRILLERS COMPLETE WORK - LEAVE SITE / AE CONTACTS R.V. REGARDING FINAL UPDATE
1745	COLLECT COCs FROM TUAN AND HE STATES THAT HE WILL STAY ON-SITE UNTIL ALL LAB RESULT ANALYSIS ARE COMPLETE
1800	LEAVE SITE FOR TITUSVILLE OFFICE
1415	DECON ALL GW EQUIPMENT / UNPACK VEHICLE
1850	LEAVE FOR BOCA RATON
2045	ARRIVE IN BOCA - LEAVE FOR HOME

COPY TO: _____ PER: ALEX RIVERA

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF Area
Project No.: FRI681
Date: 7/16/09
Task No.:
Contractors: EDS - Chris Phelps & Keith Olson; KB Labs - Herb Kelly

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0700 Arrive at office. Call Duty Office and get OK to dig, calibrate and load equipment.
0800 meet EDS at badging station. Travel to Site.
0815 Conduct Tailgate meeting. call Michael Palmer (facility manager) to discuss drilling inside building.
0830 Hand auger DPT0031 (Location A) to 5'. Sample at 10ft, 18ft, 28ft, 38ft, 43ft, 48ft and 63ft. Surface grout. Utility locate completed at 1015 (Additional Locations)
1130 Lunch
1230 KB Labs on site, Hand auger DPT0032 (Location C - inside warehouse) to 5' after cutting through concrete. Sample at 10ft, 18ft, 28ft, 38ft, 43ft, 48ft and 63ft.
1445 Hand auger DPT0033 (Location B) to 5'. Sample at 10' and 18'. Surface grout DPT0032.
1515 Work suspended due to Phase II lightening warning.

Plans/Future Activities

Janet Barlow 7/16/09
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF Area
Project No.: FR1681
Contractors: Same as P.1

Date: 7/16/09
Task No.:

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

1605 Resume work. Sample DPT0033 at 28 ft, 38 ft, 43 ft, 48 ft, and 63 ft. Surface Grout.
1800 Dispose of IDW at CCF.
1830 Leave site.

Plans/Future Activities

170382 Tank Bar Code
000025 NASA ID#

Janet Barfuss 7/16/09
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CHHE
Project No.: F Alert
Contractors: EDS - CHUCK PHELPS, KEITH OLSON, MOLAND - HERB MELLY

Date: 7/17/09
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 - @ office calibrate eq - load car
0720 - onsite - call duty office ok to dig
0745 - Hand auger - DPT0034 - Lookout "D" on map
Sample at 10', 18', 28', 38', 43', 48' and 63', Surface grout.
1015 - Location E on map, DPT0035 - cut through concrete and hand auger to 5'; Sample at 10', 18', and 28'.
1115 - Lunch break
1200 - Sample DPT0035 at 38', 43', 48' and 63', Surface Grout.
1345 - Hand auger DPT0036 (Location G - end of Building) to 5' and sample at 10', 18', 28', 38', 43', 48' and 63', Surface Grout Cement holes inside building.
1600 - Dispose of IDW and leave site.

Plans/Future Activities

- Sample intervals 8-12, 16-20, 26-30, 36-40, 41-45, 46-50, 61-65

Janet Barfus 7/17/09
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

PROJECT NAME: NASA CRHE DATE: 8/4/09

LOCATION: KSC - CAPE CANAVERAL PROJECT NO: FR1681 PHASE NO:

DESCRIPTION: DPT INVESTIGATION (GW)

SUBCONTRACTOR(S): EOS - CHRIS, KEITH ; KB LABS - HERB KELLY

WEATHER: SUNNY, 90°F, NO WIND

GEOSYNTEC PERSONNEL: ALEX RIVERA

630 ARRIVE IN TITUSVILLE OFFICE / PICK UP SUPPLIES ETC.

700 - CONTACT NASA DUTY OFFICE - OPERATOR INFORMS AR THAT TODAY NASA IS IN CRITICAL STATUS / CONTACT REBECCA PERRATO - LEAVE VM REGARDING CRITICAL STATUS

730 MEET EOS DRILLERS AT BOGING STATION - CONTACT KB LAB TO NOTIFY OF STATUS - HERB E. ONSITE - STAND BY

800 RECEIVE ALL CLEAR FROM R.D. - MOBILIZE TO CONTRACTORS ROAD

815 ARRIVE ON SITE - MOBILIZE TO DPT-037 (A ON MAP)

830 EOS HAND AUGER TO 5' BLS FOR CLEARANCE

835 SAFETY OVERVIEW W/EOS - KB LABS - BEGIN DRILLING TO 12' BLS / BEGIN CALIBRATION OF EQUIPMENT (SEE CAL. FORM)

850 12 FT BLS REACHED / BEGIN PURGE OF 8-12' INTERVAL

900 SAMPLE DPT-037 8-12 / PROCEED TO 20' BLS

905 BEGIN PURGE OF DPT-037 16-20' BLS

915 SAMPLE DPT-037 16-20 / PROCEED TO 30' BLS

923 BEGIN PURGE OF DPT-037 26-30' BLS

932 SAMPLE DPT-037 26-30 / PROCEED TO 40' BLS

943 BEGIN PURGE OF DPT-037 36-40' BLS

952 SAMPLE DPT-037 36-40 FT BLS

956 MOBILIZE TO IOW STORAGE AREA TO PICK UP DECON TUBS / DECON RODS @ DECON AREA

1045 CONTINUE DPT DRILLING TO 45' BLS

1022 BEGIN PURGE OF DPT-037 41-45' BLS

1036 SAMPLE DPT-037 41-45' / PROCEED TO 50' BLS

1090 BEGIN PURGE OF DPT-037 46-50' BLS

1058 SAMPLE DPT-037 46-50' / PROCEED TO 65' BLS

1114 BEGIN PURGE OF DPT-037 61-65' BLS

1123 SAMPLE DPT-037 61-65' / EE

FR1681

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DAILY FIELD REPORT
(continued)

NASA - CRWE
8/4/09

1130 VM FROM R.D. RECEIVED STATING TODAY IS DESIGNATED A CRITICAL DAY AND DRILLING OPERATIONS NEED TO BE HALTED. / WILL CONTACT R.D. TO VERIFY V.M.

1143 SPEAK W/R.D. REGARDING NASA CRITICAL STATUS - PER LOIS RUSSELL @ NASA DUTY OFFICE DPT MAY PROCEED AS SCHEDULED

1150 MOBILIZE TO LUNCH

1220 RETURN FROM LUNCH / EDS MOBILIZES TO DPT-038 (LOCATION D ON MAP) TO BEGIN DPT / DRILLERS DECON SCREENS

1240 BEGIN H.A. @ DPT-038 TO 5' BLS FOR UTILITY CLEARANCE

1252 BEGIN DPT DRILLING @ DPT-038 TO 12' BLS

1256 BEGIN PURGE OF DPT-038 (8-12)

1305 SAMPLE DPT-038 (8-12) / PROCEED TO 20' BLS

1310 BEGIN PURGE OF DPT-038 (16-20)

1318 ~~BEGIN~~ SAMPLE OF DPT-038 (16-20) / PROCEED TO 30' BLS - ENTER PHASE I NASA STATUS

1326 BEGIN PURGE OF DPT-038 (26-30)

1335 - SAMPLE DPT-038 (26-30) / PROCEED TO 40' BLS

1346 - BEGIN PURGE OF DPT-038 (36-40)

1354 - SAMPLE DPT-038 (36-40) / DRILLERS TO DECON SCREENS

1415 - CONTACT R.D. RE: LOCATION "C" (DPT-038) LOCATION IS IN CLOSE PROXIMITY TO STRUCTURE AND EDS FEELS THAT THERE IS NOT SUFFICIENT CLEARANCE FOR RIG - R.D. W/ASSISTANCE FROM JAN BARFUS CLEAR LOC "C" ~5 FT WEST OF PROPOSED LOCATIONS - UTILITIES HAVE BEEN MARKED - WILL H.A. FOR SAFE CLEARANCE

1418 - CONTINUE DPT @ DPT-038 TO 45' BLS

1426 - BEGIN PURGE OF DPT-038 (41-45)

1434 - SAMPLE DPT-038 (41-45) / PROCEED TO 50' BLS

1448 - BEGIN PURGE OF DPT-038 (46-50)

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FR1681

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DAILY FIELD REPORT
(continued)

NASA – CRHE
8/4/09

1456 - BEGIN SAMPLE OF DPT-038 (46-50) / PROCEED TO 65' BLS
1512 - BEGIN PURGE OF DPT-038 (61-65)
1525 - SAMPLE DPT-038 (61-65)
1534 - MOBILIZE TO DPT-039 (MARKED "C" ON MAP) — PROPOSED LOCATION HAS BEEN MOVED 3 FT WEST OF ORIGINAL MARK / DECON SCREENS
1552 - BEGIN H.A. OF DPT-039 TO 5' BLS FOR SAFETY CLEARANCE
1559 - H.A. COMPLETE - ADVANCE DPT-039 TO 12' BLS
1604 - BEGIN PURGE OF DPT-039 (8-12)
1613 - SAMPLE DPT-039 (8-12)
1615 - NASA PHASE 2 ANNOUNCED — AE CONTACT NASA WEATHER TO CONFIRM - PHASE 2 CONFIRMED UNTIL FURTHER NOTICE (WEATHER APPROACHING FROM WEST)
1630 - CONTACT R.D. TO UPDATE OF STATUS - AR WILL CONTACT WEATHER OFFICE @ ~17:00 FOR UPDATE
1700 - CONTACT NASA WEATHER - NO RESPONSE
1715 - CONTACT NASA WEATHER - NO RESPONSE
1730 - SPEAK W/ R.D. REGARDING PHASE 2 STATUS - DIRECTED TO END DAY - SEND SUBS HOME
1735 - LEAVE NASA-CRHE SITE

COPY TO: _____ PER: _____

716

Geosyntec consultants

DAILY FIELD REPORT

PROJECT NAME: NASA - CRHE DATE: 8/5/09

LOCATION: KSC, CAPE CANAVERAL PROJECT NO: FR1681 PHASE NO: ____

DESCRIPTION: DPT - GW INVESTIGATION (GW)

SUBCONTRACTOR(S): EDS - CHRIS, KEITH

WEATHER: SUNNY, 89°F, NO WIND

GEOSYNTEC PERSONNEL: ALEX RIVERA

630 - ALEX RIVERA MOBILIZES TO KSC - CAPE CAN., FL

700 - ARRIVE ON-SITE - EDS ONSITE - MOBILIZE TO DPT-039 LOCATION / BRIEF SAFETY OVERVIEW TO ADDRESS ANY SAFETY CONCERNS / ALL CLEAR FROM NASA DUTY OFF.

705 - BEGIN CALIBRATION OF EQUIPMENT (SEE CAL. FORM) / DRILLERS CONTINUE ADVANCE @ DPT-039 (16-20)

716 - BEGIN PURGE OF DPT-039 (16-20)

724 - SAMPLE DPT-039 (16-20) / PROCEED TO 30' BLS

734 - BEGIN PURGE OF DPT-039 (26-30)

742 - SAMPLE DPT-039 (26-30) / PROCEED TO 40' BLS

754 - BEGIN PURGE OF DPT-039 (36-40)

802 - SAMPLE DPT-039 (36-40) / ~~PROCEED TO 45' BLS~~ DRILLERS TO DECON SCREENS

818 - CONTINUE DPT ADVANCE TO 45' BLS

826 - BEGIN PURGE OF DPT-039 (41-45)

834 - SAMPLE DPT-039 (41-43) / PROCEED TO 50' BLS

847 - BEGIN PURGE OF DPT-039 (46-50)

855 - SAMPLE DPT-039 (46-50) / PROCEED TO 65' BLS

900 - AR. CALLS REBECCA DERRATO TO UPDATE ON DAY'S PROGRESS AND PLAN FOR REMAINDER OF DAY - WILL CONTINUE TO FOLLOW DPT LOCATIONS ON FIGURE

912 - BEGIN PURGE OF DPT-039 (61-65)

920 - SAMPLE DPT-039 (61-65) / DRILLERS MOBILIZE TO DPT-040 (DESIGNATED "D" ON PROPOSED DPT-LOCATION FIGURE)

925 - DRILLERS TO DECON SCREENS / BEGIN H.A. OF DPT-040 TO 5' BLS FOR UTILITY CLEARANCE

943 - BEGIN DPT ADVANCE OF DPT-040 (8-12)

FR1681

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DAILY FIELD REPORT
(continued)

NAIA - CRHE
8/5/09

0940 - BEGIN PURGE OF DPT-040 (8-12)
0955 - SAMPLE DPT-040 (8-12) / ADVANCE TO 20' BLS
1000 - BEGIN PURGE OF DPT-040 (16-20)
1008 - SAMPLE DPT-040 (16-20) / ADVANCE TO 30' BLS
1015 - BEGIN PURGE OF DPT-040 (26-30)
1024 - SAMPLE DPT-040 (26-30) / ADVANCE TO 40' BLS
1035 - BEGIN PURGE OF DPT-040 (36-40)
1044 - SAMPLE DPT-040 (36-40) / DRILLERS TO DECON SCREENS AND DISPOSE OF IDW / IDW DISPOSED INTO TANK # 0000 25
1115 - MOBILIZE TO LUNCH
1145 - LARGE STORM APPROACHING FROM SOUTH — CONTACT NASA WEATHER FOR PHASE UPDATE — WORK AREA IS CURRENTLY UNDER PHASE 2 STATUS UNTIL FURTHER NOTICE
1245 - CONTACT WEATHER OFFICE — CONTINUED PHASE 2 STATUS / CONTACT R.D. TO NOTIFY OF PHASE 2 STATUS
1325 - RECEIVE PHASE I CONFIRMATION THROUGH NASA DUTY OFFICE — CONTINUE ADVANCE OF DPT-040 TO 45 FT BLS
1334 - PURGE OF DPT-040 (41-45)
1342 - SAMPLE DPT-040 (41-45) / ADVANCE DPT TO 50' BLS
1356 - BEGIN PURGE OF DPT-040 (46-50)
1404 - SAMPLE DPT-040 (46-50) / ADVANCE DPT TO 65' BLS
1421 - BEGIN PURGE OF DPT-040 (61-65)
1429 - SAMPLE DPT-040 (61-65) / DRILLERS TO DECON SCREENS AND MOBILIZE TO LOCATION "E" ON MAP (DPT-041)
1450 - BEGIN H.A. OF DPT-041 FOR UTILITY CLEARANCE
1500 - BEGIN DRILLING TO 12' BLS @ DPT-041
1503 - BEGIN PURGE OF DPT-041 (8-12)
1512 - SAMPLE DPT-041 (8-12) / ADVANCE TO 20' BLS
1517 - BEGIN PURGE OF DPT-041 (16-20)
1525 - SAMPLE DPT-041 (16-20) / ADVANCE TO 30' BLS

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FR1681
NASA - CRUE
8/5/09

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DAILY FIELD REPORT
(continued)

1534 - BEGIN PURGE OF DPT-041 (26-30)
1542 - SAMPLE DPT-041 (26-30) / ADVANCE TO 40' BGS
1553 - BEGIN PURGE OF DPT-041 (36-40)
1601 - SAMPLE DPT-041 (36-40)
→ PHASE 2 ANNOUNCED - DRILLERS AND REMAINING PERSONNEL STAND-BY UNTIL FURTHER NOTICE
→ SPEAK WITH HERB KELLY TO DETERMINE ETA OF MOBIL LAB - WILL ARRIVE BETWEEN 16:45-1700
1700 → CONTACT NASA DUTY OFFICE REGARDING WEATHER STATUS BARBARA @ DUTY OFFICE STATES PHASE 2 CONTINUES UNTIL FURTHER NOTICE. / KB LABS ARRIVES ON SITE
1725 → CONTACT NASA DUTY OFFICE RE: WEATHER STATUS → KSC STILL UNDER PHASE 2
→ CONTACT JILL JOHNSON REGARDING DAY'S PROGRESS - JJ. DETERMINES PHASE 2 HAS CONCLUDED WORK DAY -
→ PER J.J., KB LAB'S HERB KELLY STATES CRUE SAMPLES HAVE PRIORITY FOR ANALYSIS AND DATA WILL BE AVAILABLE BY MORNING
1740 - LEAVE SITE - MOBILIZE TO OFFICE
- DRILLERS LEAVE SITE
1800 - ARRIVE IN TITUSVILLE - OFFICE

COPY TO: _____ PER: ALEX RIVERA

Geosyntec consultants

DAILY FIELD REPORT

Project: CRAE Area
Project No.: FR1681
Date: 8/6/09
Task No.:
Contractors: EDS- Chris Phelps + Keith Olson; KB Labs- Herb Kelly

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0615 Arrive at office. Calibrate and load equipment. Call Duty office – no restrictions. Travel to site.
0700 Arrive on site. Conduct Tailgate meeting.
0720 Continue Sampling DPT0041 (Location E on map). Sample at 43', 48' and 63'. Surface grout.
0830 Hand auger DPT0042 (Location F on map) to 5'. Sample at 10', 18', 28', 38', 43', 48' and 63'. Surface grout. Pressure wash screens.
1100 Lunch break.
1145 Hammer through concrete and hand auger DPT0043 (step out 25' east of DPT0039) to 5'. Sample at 10', 18', 28', 38', 43' and 48'.
1330 Stop work due to Phase II lightening status.
1445 Out of Phase II, work resumed. Sample DPT0043 at 63'. Surface grout. Pressure wash screens.

Plans/Future Activities

Janet Barfuss 8/6/09
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE Area
Project No.: FR1681
Contractors: Same as p1

Date: 8/6/09
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1545 Hand auger DPT0044 (Location G on map) to 5'. Sample at 33', 38', 43' and 48'. Surface grout.
1700 Load equipment and dispose of IDW at CCE.
1730 Leave site.

Plans/Future Activities

NASA Tag # 000025
Drum # 170382
~ 100 Gal.

Janet Barfus 8/6/09
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of

Project: CRHE
Project No.: ~~ERI688~~ ERI681
Contractors: Boart Longyear (Neil Ray AS & Fred)
Date: 1-21-10
Task No.: 7.6

Work Performed

Well Installation:
Soil Borings: SB0001, SB0002, SB0003
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Pack equipment, print paperwork
0730 At badging station - H&S Paperwork
0750 Boart arrives at badging station
Call Security - Environmental drilling at CRHE area.
0925 Hand augered to 5' BLS. Photographed 1ft intervals collected on plastic, drummed soil. will Lay out ~20ft rows of soil L-R/~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ etc. Photos of 2.5' sections Setup plastic under the truck. Drums to 60% - will check on # after 1st hole. Need 3 or ~~more~~ pallets.
12-1230 Lunch ~~with~~ Anne a message - need to drum soil to calc # of drums.
SB0002 and SB0002A had many utilities around. used SB0023 location for "SB0002". Hand augered to 5' BLS. Setup ~~?~~ Complete
6 offsite, RTN to office get addt'l equipment Post hole dig
645 Leave office
~~Tue~~ 11-1230 SB0001 & 2 boring logs in CAD

Plans/Future Activities

- Where do we store the drums? / Set up decon?
Just inside fence to North of Bldg 1 / use pan - steam while removing rods.

~ 230 Anne & Bob came by. ~~Confirmed~~ soil Please Leave soil. SB0001 was already drummed.

1-21-10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: FR1651
Project No.: CRHE Area
Contractors: Boart Longyear (Soil Crew)

Date: 1-22-10
Task No.:

Work Performed

Well Installation:
Soil Borings: SB0003 pull tooling/SB0004
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0715 Travel to site
0745 onsite - Call Security - Tornado Warning over at 8AM
0800 tailgate meeting. Remove tooling > move to SB0004A (west of NW corner of KE-1996 ~ 1/2 way btw road & railroad)
Checked in w/ Railroad office - not inside barrier just for courtesy.
Work out drum labels
11-1145 drillers lunch - Anne & Mike came by to look at soil cores.
1145 Begin drumming soil & take IDW liquid to CCF.
Go to get drum pallets.

Plans/Future Activities

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR11681
Contractors:

Date: 1/25/10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: ✓
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0615 office (Titusville)
0715 badging starts (get badges)
0800 started drilling
1140 lunch
1220 drilling
1600 finished drilling
1630 disposed of liquid
1645 off-site

Plans/Future Activities

① CHRE-DPT____-____.2-201001__
0044 depth date
② time

depth = middle ft

1/25/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR116081
Contractors:

Date: 1/26/10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

7:30 onsite
8:00 started sampling
11:20 lunch
12:00 started sampling/drilling
stopped sampling/drilling
3:45 off-site

Plans/Future Activities

W - G - K
T - L - P (start)
R - P - T

through R

group SB03 → walk around, 6" deep, 8" wide

1/26/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors:

Date: 1/27/10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: ✓
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 calibrated YSI
0730 on site, met w/ drillers
0740 started drilling/sampling
I → 0452
H → 0453
1140 lunch
1215 started drilling/sampling
5:00 finished sampling
5:30 off-site

Plans/Future Activities

tomorrow P, L, M, N

1/27/10
Signature/Date

j:\admnshare\rem-form\DAILY.XLS

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors:

Date: 1/28/10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: ✓
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

6:45 calibrated YSI
7:30 on-site
7:50 started drilling/sampling
11:30 lunch
12:15 started drilling/sampling
16:50 ended drilling/sampling
17:10 off-site

Plans/Future Activities

core off 10-15' South of A (0445)

1/28/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: ~~SSR~~ CRHE
Project No.: FR1681
Contractors:

Date: 1/29/10
Task No.:

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	✓	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0700 calibrated YSI
0715 onsite
0730 started drilling / sampling
1215 lunch
1330 Jan arrives on site.
Completed Sampling DPT0463 (RJ) - depths 26-30, 36-40, 41-45, 46-50 & 56-60,
1430 EDS leaves site. GPS locations DPT0445-DPT0463 & SB01-SB04.
1515 Leave site

Plans/Future Activities

parking lot 8-12, 16-20, 5 others
R -> 5

IDW NASA Tag 000025 Tank Bar Code 177777

Jan Barfus 1/29/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Date: 2/11/10
Task No.:
Contractors: EDS: Chris Phelps + Keith Olson; KB Labs - Glenn Jackson

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0630 meet Neil at office, Calibrate and Load equipment. Travel to site.
0730 meet EDS + KB labs on site, Conduct Tailgate meeting, Check in at site office to let them know we are working next to the railroad tracks.
0745 Hand auger DPT0064 to 5'. Sample at 28', 38', 43', 48', 58', and 63'. (Location AI on map). Decon screens
Hand auger DPT0065 to 5' (Location AH on map). Sample at
1000 28', 38', 43', 48', 58' and 63'. Decon screens.
1200 Lunch break
1230 Hand auger DPT0066 to 5' (Location AG on map). Sample at 28', 38', 43, 48' and 58'. Decon screens.
1430 Hand auger DPT0067 to 5' (Location just north of building). Sample at 10', 18', 28', 38', 43', 48' and 58'. Decon screens.
1700 Dispose of FDW at CCF and leave site.

Plans/Future Activities

0800 meet with Pete + Jeff for utility locate. Locate 10 points.
0900 meet Anne on site to mark paths to be cleared.

Jen Barfus 2/11/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Date: 2/2/10
Task No.:
Contractors: EDS: Chris Phelps & Keith Olson; KB Labs: Glenn Jackson

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 Arrive at office. Calibrate and load equipment. Travel to site.
0730 Meet EDS and KB Labs on site. Hand auger DPT0068 (Location T on map) to 5'. Sample at 28', 38', 43', 48' and 58'.
0915 Hand auger DPT0069 (location next to road-east) to 5'. Sample at 10'. Decon screens. Sample at 18' and 28'.
1015 Stopped work due to Phase II lightening warning.
1230 Resumed work. Sampled DPT0069 at 38', 43', 48', and 58'. Decon screens.
1350 Hand auger DPT0070 (Location AC on map) to 5'. Sample at 28', 38', 43', 48' and 58'.
1515 Hand auger DPT0071 (Location ? on map) to 5'. Sample at 28'. Decon Screens. Sample at 38', 48' and 58'.
1700 Dispose of IDW at CCF and leave site.

Plans/Future Activities

Jan Barfus 2/2/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Date: 2/3/10
Task No.:
Contractors: EDS - Chris Phelps & Keith Olson; KB Labs - Glenn Jackson

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 Arrive at office, Calibrate and load equipment. Travel to site.
0720 meet EDS & KB Labs on site. Hand auger DPT0072 (Location AA on map) to 5'. Sample at 28', 38', 43', 48', 58' and 63'. Decon Screens. Replace decon water & rag.
0920 Hand auger DPT0073 (Location AF on map) to 5'. Sample at 28', 38', 43', 48' & 58'. Replace decon water & rag.
1100 Hand auger DPT0074 (Location Y on map) to 5'. Sample at 28'. Decon Screens. Sample at 38' and 43'. Replace decon water and rag. Sample at 48', 58' and 63'. Hand auger new hole to 5' and sample at 10' and 18' (DPT0074). Replace decon water.
1400 Hand auger DPT0073 to 5' and sample at 10' and 18'. Replace decon water.
1420 Hand auger DPT0072 to 5' and sample at 10' and 18'. Grout and GPS locations.
1530 Dispose of IDW at CCF and leave site.

Plans/Future Activities

0930 Pete on site to locate points Z & Y.

Jen Barfuss 2/3/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR11681
Date: 2-23-10
Task No.: 7.9 (ULR) using MW3 for all units
Contractors: KB Labs (MIP & Mobile Lab VOCs) Brad / Glenn onsite
EDS (Chris & Keith - MIP) JAEE (Chris & Carl)

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater (Neil & JAEE)
Well Inventory:
Other: Membrane Interface Probe (MIP)

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0710 Smiley & Neil meet at office / Neil is calibrating. Tel to meet
0730 Meet JAEE/EDS/KBS (Brad)
Brad gets finger printed
Have tailgate meeting. Discuss decon, PPE, sample, load
Travel to SHE Chris & Keith require escort (25)
Get Brad setup on MIP0001.
Chris & Keith have to mobe back into woods, get rig, haul trailer back w/rig to truck, load up, move to yard, unload, set up on MIP0001
0900 Begin MIP0001. Push 1 foot, wait - didn't read depth
Trouble shooting w/ geoprobe (pins in back of computer were bad)
Anne stopped by. Told her I would call when they were running & showed her the probe & GC.
0930 - 11 Made calls back & forth, moved to location F west of woods & MIP is back up ... moved back to MIP01
~~Took~~ Utility locate w/Pete A-I & X

Plans/Future Activities

1145-12 Get lunch for Neil & I. Chris & Keith brought lunch. Ate by Glenn's Lab.
12 Calibrate MIP
1210 Begin pushing MIP01. Small ECD hits ~20' BGS 10^6 scale (can go up to 10^7)
~36' BGS ECD maxed, PID & FID spiked to ~39'
to 39. then came down ~45. 54' got easier to push.

2/23/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Date: 2-23-10
Task No.: 7.4 ULR (MW install)
Contractors: EDS (Chris & Keith) JAEE (Carl & Chris) KB MIP (Brad) Mobile Lab (Glenn)

Work Performed

Well Installation:
Soil Borings:
DPT: * Groundwater (Neil & JAEE)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

* EDS & Emily

Observations/Issues of Concern

very difficult to hand auger MIP002, Tried twice in utility locate circle & at spot for location A (DPT). ~2' BLS Rubble. There was some at MIP001, but 2nd try was good.
1412 Begin MIP002 at 52' BLS no response, but MIP (GC) caught fine. Breed will Assess.
Chris & Keith will move to AD(I) DPT0081 and groundwater sample 26-30, 36-40, 41-45 ~~and~~ 46-50 and 56-60.
Collected DPT0081 (26-30) at 1535 color = gray
(36-40) at 1550 = gray cleared some
(41-45) at 1605 = gray cleared fast
(46-50) at 1620 = gray cleared fast
(56-60) at 1640 = gray
Took IDW waste to CCF storage area.
EDS Added ~30 gallons to 000025 17777 Barcode
started at just over 300 gal → final 350 gal.
JAEE Added ~15 gallons

Plans/Future Activities

2/23/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE - Contractors Rd
Project No.: FR1681
Contractors: EDS + KB Labs

Date: 2/22/10
Task No.: 07*3

Work Performed

Well Installation:
Soil Borings:
DPT: 75 Through 77 + 3 intervals at 78
Well Inventory:
Other: Mobile Lab

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0615 Arrive @ office + calibrate equipment
0700 Pack up vehicle + drive to NASA badging station to meet Lab + drill crew
0745 Everyone badged. Move to DPT location. Must escort EDS crew.
0815 Conduct tailgate safety meeting before starting work
0830 DPT 75 started Hand augering first 5' for this and all other locations
1015 DPT 75 finished. EDS decons + moves to next DPT location
1015 DPT 76 started
1305 DPT 76 finished. Decon + move to next location
1330 DPT 77 started.
1510 DPT 77 finished Decon + move to next location across the wooded area
1545 EDS truck gets stuck multiple time trying to get to next location
1625 DPT 78 started
1655 EDS finished after 3 intervals. Take decon water to LCC then leave site. Glenn at KB Labs remains on site.
1735 Arrive back at Titusville office. CCV at YSI.

Plans/Future Activities

805 End of the day
More DPT w/ Emily Guyer assisting with MIP

2/22/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRME - Contracting Rd
Project No.: FR1681
Contractors: EDS, JAEE, + KB Labs x2

Date: 2/23/10
Task No.: 07#3

Work Performed

Well Installation:
Soil Borings:
DPT: 78 through 80, 81 by Emily/Bryan
Well Inventory:
Other: MIP + Mobile Labs

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 Arrive at Titusville office to cal. brake YSI + pack equipment
0715 Meet JAEE, EDS + Brad at KB Labs @ loading station w/ Emily.
0745 I take JAEE to DPT 78 while Emily takes EDS + Brad to do MIP work
0805 JAEE deploys on DPT 78
0950 DPT 78 finished. JAEE must decon after 4 intervals
1030 DPT 79 started.
1100 One of the JAEE workers leaves to pick up ewt + lunch.
1215 JAEE must decon the screens.
1325 DPT 79 finished. Both JAEE workers back on site.
1345 DPT 80 started.
1480 JAEE must decon screens. EDS begin DPT 81 the MIP sensor beam ruined
1615 DPT 80 finished. MIP down for good so JAEE sent back home while EDS stays
1700 JAEE Packs up. I escort them to the LCC to get rid of their IDW, they leave Plug
1715 Meet w/ Emily to assess where to begin tomorrow. DPT 80 finished.
1745 Arrive back @ Titusville office. LCV for YSI.

1800 End of the day

Plans/Future Activities

More DPT

2/23/10
Signature/Date

Geosyntec ▷
consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR11681
Date: 2-23-10
Task No.: 7.9 (ULR) using previous field units
Contractors: KB Labs (MIP & Mobile Lab VOCs) Brad / Glenn onsite
EDS (Chris & Keith - MIP) JAEE (Chris & Carl)

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater (Neil & JAEE)
Well Inventory:
Other: Membrane Interface Probe (MIP)

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0710 Carley & Neil meet at office / Neil is calibrating. Tu to meet
0730 Meet) JAEE/EDS/KB(Brad)
Brad gets finger printed
Have tailgate meeting. Discuss decon, PPE, sample load
Travel to SHE Chris & Keith require escort (25)
Get Brad setup on MIP0001.
Chris & Keith have to move back into woods, get rig, haul trailer back w/rig to truck, load up, move to yard, unload, set up on MIP0001
0900 Begin MIP0001. Push 1 foot, wait - didn't read depth
Trouble shooting w/ geoprobe (pins in back of computer were bad)
Anne stopped by. Told her I would call when they were running & showed her the probe & GC.
0930 - 11 Made calls back & forth, moved to location F west of woods & MIP is back up... moved back to MIP01
~~Took~~ Utility locate w/Pete A-I & X

Plans/Future Activities

1145-12 Get lunch for Neil & I. Chris & Keith brought lunch. Ate by Glenn's Lab.
12 Calibrate MIP
1210 Begin pushing MIP01. Small ECD hits ~20' BLS 10^6 scale (cont up to 107)
~36' BLS ECD maxed, PID & FID spiked to ~39'
to 39. then came down ~45. 54' got easier to push.

2/23/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Date: 2-23-10
Task No.: 7.4 ULR (MW install)
Contractors: EDS (Chris & Keith) JAEE (Carl & Chris) KB MIP (Brad) Mobile Lab (Glenn)

Work Performed

Well Installation:
Soil Borings:
DPT: * Groundwater (Neil & JAEE)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

* EDS & Emily

Observations/Issues of Concern

very difficult to hand auger MIP002, Tried twice in utility locate circle & at spot for location # (DPT). ~2' BLS Rubble. There was some at MIP001, but 2nd try was good.
1412 Begun MIP002 at 50' BLS no response, but MIP (GC) caught fine. Bread will Assess.
Chris & Keith will move to AD(I) DPT0081 and groundwater sample 26-30, 36-40, 41-45 ~~and~~ 46-50 and 56-60.
Collected DPT0081 (26-30) at 1535 color = gray
(36-40) at 1550 = gray cleared some
(41-45) at 1605 = gray cleared fast
(46-50) at 1620 = gray cleared fast
(56-60) at 1640 = gray
Took IDW waste to CCF storage area.
EDS Added ~20 gallons to 000025 17777 Barcode
started at just over 300 gal → final 350 gal.
JAEE Added ~15 gallons

Plans/Future Activities

2/23/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: LRHE
Project No.: FR1681
Contractors: EDS, KB Labs

Date: 2/24/10
Task No.: 0743

Work Performed

Well Installation:
Soil Borings:
DPT: 82 through 84
Well Inventory:
Other: Mobile Lab

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 Arrive @ Titusville office to collect work YSI & park equipment.
0720 Meet EDS to escort them to the CRHE site.
0755 EDS moves equipment to DPT 82 and begin drilling
0930 Begins to rain a bit. EDS must decon screens.
0955 DPT 82 finished just as a Phase II called is called; work must stop for now.
1100 while still in Phase II, EDS takes their lunch.
1120 Phase II over. EDS moves rig to DPT location 83
1140 DPT 83 starts.
1245 EDS must decon screens
1330 DPT 83 finished. Move to DPT 84
1400 DPT 84 started
1455 EDS must decon screens
1600 DPT 84 finished. EDS moves to DPT location 85 + performs some equipment maintenance.
1630 weather looking bad so the drivers called early. IDW taken to the LCC. Then EDS is escorted to me off base. Glenn remains behind on site

Plans/Future Activities

1715 Arrive @ Titusville office and perform YSI CCV
1730 End of the day

More DPT work + Utility locate

2/24/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRMF - contractors Rd
Project No.: FR1681
Contractors: EDS of KB Labs

Date: 8/25/10
Task No.: 07 #3

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 85-87 + 1 interval of 88
Well Inventory:
Other: Mobile Lab

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 Arrive @ Titusville office to calibrate YSI & pack necessary equipment.
0715 Meet EDS crew to escort them to the site
0745 conduct tailgate safety meeting
0810 DPT 85 started. I expect the utility locate crew @ ~0930 so I locate DPT locations in my down time
0850 EDS must decon their screens
0915 Utility locate arrives, I must split my time between DPT & locating DPT
1010 DPT 85 finished as well as the locate guys. EDS moves to DPT location 86
1030 DPT 86 started
1055 EDS must decon screens. Break for lunch after decon is finished
1305 DPT 86 finished. Move to DPT 87 then perform equipment maintenance
1400 After one interval of DPT 87, EDS must decon screens.
1610 DPT 87 finished move to DPT location 88 after decoming screens.
1635 DPT 87 started.
1655 EDS begins collecting IDW after 1 interval is sampled.
1715 IDW dumped at the LCC. EDS escorted off site.

Plans/Future Activities

0745 Arrive @ Titusville office for YSI CCV
1810 end of the day

Angel Martin to replace me tomorrow for DPT.

8/25/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: FR1681 CRTE
Project No.: FR1681
Contractors: EDS + KB Labs

Date: 2-26-210
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: 88 through 90 + additional 86
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 at office to calibrate & load equipment
0715 Meet Chris + Keith from EDS at badging station and escort to contractors (KB labs already onsite)
0725 onsite conduct health & safety tailgate meeting
0730 start second interval of DPT088 location "J"
0900 stop to decon 6 screens
0945 setup on DPT089 Location "O"
1115 break for lunch, then decon back at 1155
1245 move across the street to DPT090 Location "Z"
1400 decon
1520 setup on DPT086
1530 Neil onsite to GPS
1605 Go to LCC w/ EDS to dump purge water + decon water 8 buckets (5 gal) so approx 40gals
1710 Angel + Neil offsite, KB Labs still onsite
1730 back to office to check calibration

Plans/Future Activities

2/26/2010
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE Contractors Rd
Project No.: FR1681
Contractors: EDS KB Labs

Date: 3/1/10
Task No.: 07#3

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 91 - 93 + 3 intervals of 94
Well Inventory:
Other: Mobile Lab, Utility Locate

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 Arrive @ Titusville Office to calibrate YSI & pack equipment
0715 Meet EDS @ badging station & escort them to the CRHE site
0745 Tailgate safety meeting
0800 DPT 91 started. Utility Locate expected @ 1000. Locate while there is time between sampling
0845 Utility locate arrives early. Drillers wait while locate is being conducted.
0945 The final locate at this project phase is complete. ~~DPT~~ DPT resumes
1000 EDS must decon the screens.
1030 DPT 91 finished. Move to DPT 92
1040 DPT 92 started
1125 EDS must decon their screens. Take lunch after
1310 DPT 92 finished. move to DPT 93
1325 DPT 93 started.
1525 DPT 93 finished. Decon their screens before moving to DPT 94. Rebecca would like as many samples today due to bad weather expected tomorrow
1545 DPT 94 started

Plans/Future Activities

1635 3 screened intervals finished
EDS collects the IDW + I escort them to the CCC
1705 EDS is escorted off site. Glenn of KB Labs remains on site
1730 Arrive back @ Titusville office to perform CCV of the YSI
1755 End of the day
DPT tomorrow

3/1/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE - Contractors Rd
Project No.: FR1681
Contractors: EDS & KB Labs

Date: 3/2/10
Task No.: 07+3

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 94 - 96
Well Inventory:
Other: Mobile Lab

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 Arrive @ Titusville office to calibrate YSI & pack equipment
0705 Meet EDS @ loading station & escort them to the job site
0735 conduct daily tail/gate safety meeting
0745 Phase II weather advisory is called as 33' depth is stabilizing. I take pH sample early then get into my vehicle. As does EDS
0830 Phase II over. Resume work on DPT 94
0930 DPT 94 finished. Move to DPT location 95 while deconing the screens
1000 Geopump not working. EDS disassembles it to find out why.
1019 The wire to the battery went bad. They find a replacement & hook it into the pump
1130 ~~1030~~ Decon the screens & take lunch
1230 DPT 95 finished move to DPT 96
1258 DPT 96 started
1440 DPT 96 finished. EDS crew decons equipment before packing up.
1535 Escort EDS to the LCC to dump the IDW.
1535 Escort EDS to their next DPT site @ NASA (CM&S) so they can leave their rig & trailer for tomorrow.

Plans/Future Activities

1600 Escort EDS off site & return to Titusville office
1630 Perform YSI CCV
1645 End of the day

3/2/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS - David Seaforss + Glen Pennington

Date: 6/14/10
Task No.: 12.7

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0630 Arrive at office. Calibrate and load equipment.
0730 Meet EDS at badging station. Pick up spill pallet at POL. Travel to site.
0815 On site. Conduct tailgate meeting. Unload equipment.
0845 Hand auger DPT0097 to 5' (Location B on map). Sample at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35', 36-40'. Replace decon water. Sample at 41-45' & 46-50'.
1200 Lunch break
1230 Pressure grout ~~DPT~~ RD DPT0097. Pressure wash rods & screens.
1330 Hand auger DPT0098 (Location A on map) to 5'. Sample at 8-12', 12-16', 18-20', 21-25', 26-30', 31-35', 36-40'. Replace decon water. Sample at 41-45' & 46-50'. Attempt to pressure grout but cannot get grouter started. Trimmey grout hole.
1745 ~~1800~~ JRD Attempt to hand auger location C. Hit what appears

Plans/Future Activities

Spill Pallet Bar Code 170407
Drum Bar Code 170408 (DPT0097 - DPT0101)
IDW Disposal - drums on site

Janet Barthus 6/14/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Same as p.1

Date: 6/14/10
Task No.: 12.2

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

To be solid concrete at ~2'. Obstruction is below water table so we cannot determine what it is. Discontinue hand augering at this location.

1800 Hand auger DPT0099 (Location D on map) to 5'. Sample at 8-12' & 12-16'.

1845 Drop samples off at KB labs at MLP VAB area.

1900 Leave site.

Plans/Future Activities

Janet Barfus 6/14/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS- David Searfoss + Glen Pennington

Date: 6/15/10
Task No.: 12.2

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0645 Arrive at office. Calibrate + load equipment. Travel to site
0730 On site. Conduct Tailgate meeting. Sample DPT0099 at 16-20', 21-25', 26-30', 31-35', 36-40' 41-45' and 46-50'. Trimmey grout hole. Decon screens + rods.
1020 Hand auger DPT0100 (Location C on map) to 5'. Sample at 8-12', 12-16', 16-20', 21-25', 26-30' + 31-35'
1215 Lunch break
1245 Sample DPT0100 at 36-40', 41-45 + 46-50'
1400 Work discontinued due to phase II weather warning.
1430 Resume work. Pressure grout DPT0100. Pressure wash screens + rods.
1515 Hand auger DPT0101 (Location E on map) to 5'. Sample at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35'

Plans/Future Activities

0830 Pete + ~~Geoff~~ Jeff on site To verify Location C is clear.

Janet Barfus 6/15/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Same as p. 1

Date: 6/15/10
Task No.: 12.2

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

36-40', 41-45' and 46-50' Surface grout hole.
1745 Drop samples at KB Labs in MLPVAB area.
1800 Leave site.

Plans/Future Activities

Janet Barfus 6/15/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS- David Searfoss + Glen Pennington

Date: 6/16/10
Task No.: 12.2

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0645 Arrive at office. Calibrate & load equipment. Travel to site.
0730 On site. Conduct Tailgate meeting. Hand auger DPT0102 (Location F on map) to 5'. Sample at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35', 36-40', 41-45', and 46-50'. Surface grout hole.
1100 Hand auger DPT0103 (Location G on map) to 5' Sample at 8-12', ~~12-30'~~ 12-16', 16-20', 21-25', 26-30', 31-35', 36-40' and 41-45'. Surface grout hole.
1420 Work discontinued due to phase II lightening warning.
1450 Resume work. Sample DPT0103 at 46-50'.
1520 Hand auger DPT0104 (Location H on map) to 5'. Sample at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35' & 36-40'.
1730 Take samples to KB Labs at MLPVAB area.
1745 Leave site.

Plans/Future Activities

Drum Bar Code 170409 (DPT0102- DPT0106)

Janet Barfuss 6/16/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1687
Date: 6/17/10
Task No.: 12.2
Contractors: EDS - David Searfoss & Glen Pennington

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0645 Arrive at office. Calibrate & load equipment. Travel to site.
0730 On site. Conduct tailgate meeting. Sample DPT0104 at 41-45' and 46-50'. Surface grout hole.
0850 Hand auger DPT0105 (Location I on map) to 5'. Sample at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35', 36-40', 41-45" and 46-50'. Surface grout hole.
1200 Lunch break
1245 Hand auger DPT0106 (Location J on map) to 5'. Sample at 8-12', 12-16', 16-20' and 21-25'.
1410 Work discontinued due to phase II lightening warning.
1550 Resume work. Sample DPT0106 at 26-30', 31-35', 36-40', 41-45' and 46-50'.
1730 Work discontinued due to phase II lightening warning.
1745 Drop samples at KB Labs in MLP VAB area.
1800 Leave site.

Plans/Future Activities

Janet Barfus 6/17/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHF
Project No.: FR1681
Contractors: EDS- David Searfoss & Glen Pennington

Date: 6/18/10
Task No.: 13.2

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0620 Arrive at office. Calibrate & load equipment. Travel to site.
0700 On site. Conduct tailgate meeting. Receive request to move decon area. Locate new area and move decon equipment.
0830 Hand auger DPT0107 (Location K on map) to 5'. Sample at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' and 46-50'.
1110 Hand auger DPT0108 (Location L on map) to 5'. Sample at 8-12', 16-30', 26-30', 31-35', 36-40' and 41-45'.
1245 Lunch break.
1315 Sample DPT0108 at 46-50' and 56-60'.
1445 Surface grout DPT0107 & DPT0108 and top off all previous locations. Clean up & secure site in anticipation of bad weather moving in.
1530 Set up on DPT0109 (Location M on map).
1540 Work discontinued due to Phase II lightening warning.
1600 Lightening projected to last until 2100 hrs. Drop samples at KB Labs. Leave site.

Plans/Future Activities

IDW added to drums 170410 and 178712. Spill pallet 170407 (DPT0107 + DPT0108 + Decon water) (DPT0109-115)

Janet Barfus 6/18/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: EDS- David Searfoss + Glen Pennington

Date: 6/21/10
Task No.: 12.2

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0615 Arrive at office, Calibrate and load equipment. Travel to site.
0700 On site. Conduct tailgate meeting. Sample DPT0109 at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' and 46-50'.
0945 Hand auger DPT0110 (Location N on map) to 5'. Sample at 31-35', 36-40', 41-45' and 46-50'.
1130 Hand auger DPT0111 (Location O on map) to 5'. Sample at 8-12', 16-20', 26-30' and 31-35'.
1230 Lunch break
1300 Sample DPT0111 at 36-40', 41-45', 46-50' and 56-60'.
1530 Hand auger DPT0112 (Location P on map) to 5'. Sample at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' and 46-50'.
1800 Drop samples at KB Labs in VP Area. Leave site.

Plans/Future Activities

Janet Barker 6/24/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS- David Searfoss & Glen Pennington

Date: 6/22/10
Task No.: 12.2

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0620 Arrive at office. Calibrate and load equipment. Travel to site.
0700 On site. Conduct tailgate meeting. Surface grout locations DPT0110 - 112. Hand auger DPT0113 (Location Q on map) to 5'. Sample at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' and 46-50'. Surface grout hole.
1035 Hand auger DPT0114 (Location R on map) to 5'. Sample at 8-12', 16-20', 26-30', 31-35 36-40' and 41-45'.
1230 Lunch break. Pick up GPS from VPF area.
1330 Sample DPT0114 at 46-50'. Surface grout hole.
1400 Hand auger DPT0115 (Location S on map) to 5'. Sample at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' & 46-50'. Surface grout hole.
1620 Load equipment and complete grouting.
1730 Take spill paller, 2 drums & strap to HMFN.
1745 Drop samples at lab in VPF area.
1800 Leave site.

Plans/Future Activities

IDW- 1 spill paller with 4 drums onsite. (strapped)
1 empty spill paller with 2 extra bottoms strapped together on site.

Janet Barfus 6/22/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: ER1681
Contractors: EDS (J.R & Davey)

Date: 2 Aug 2016
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: ✓ Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 Equipment calibration conducted.
0745 J. McKinnon gets badge at NASA badging station; meet EDS.
0825 J. Barfus conducts health and safety meeting with Geosyntec and EDS.
0840 Geosyntec meets with NASA Site personnel.
0850 Barfus off-site. DPT groundwater sampling activities begin.
0900 DPT0116("A") drilling begins. All boreholes will be hand augered to 5 ft bls.
0915 DPT0116-010.0 collected.
0930 DPT0116-018.0 collected.
0950 DPT0116-028.0 collected.
1010 DPT0116-033.0 collected.
1015 EDS decontaminates screens at spill pad.
1030 DPT0116-038.0 collected.
1055 DPT0116-043.0 collected.
1185 DPT0116-048.0 collected.
1125 DPT0116 sampling complete. Mobilization to DPT0117 and screen decontamination conducted.
1130 DPT0117 drilling begins. ("B")

Plans/Future Activities

DPT groundwater sampling
Sample Depths:
10 = 8-12 ft BLS
18 = 16-20 ft BLS
28 = 26-30 ft BLS
33 = 31-35 ft BLS
38 = 36-40 ft BLS
43 = 41-45 ft BLS
48 = 46-50 ft BLS

Joey M. 8.2.16
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: FR1681
Contractors: EDS (J.R. + Davey)

Date: 8.2.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: ✓ Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1145 DPT0117-010.0 collected.
1158 DPT0117-018.0 collected.
1210 Geosyntec and EDS break for lunch.
1240 DPT activities continue.
1300 DPT0117-028.0 collected.
1320 DPT0117-033.0 collected. EDS decontaminates (Sump) ~~well~~ screens at spill pad.
1408 DPT0117-043.0 collected.
1345 DPT0117-038.0 collected.
1430 DPT0117-048.0 collected.
1445 DPT0117 sampling complete. Mobilization to DPTD118 and screen decontamination conducted.
1452 DPTD118 sampling/drilling begins. ("C")
1505 DPT0118-010.0 collected.
1520 DPT0118-018.0 collected.
1537 DPT0118-028.0 collected.
1555 DPT0118-~~028.0~~ (FM) 033.0 collected.

Plans/Future Activities

DPT Groundwater Sampling

Jerry McKinnon 8.2.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: FR1681
Contractors: EDS (J.R. & David)
Date: 8.2.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1603 EDS decontaminates screens at spill pad.
1617 DPT0118 - 038.0 collected.
1637 DPT0118 - 043.0 collected.
1700 DPT0118 - 048.0 collected.
1715 DPT0118 sampling complete. Mobilization to DPT0119 conducted.
1725 EDS disposes of purge and decontamination water at drum staging area.
1735 EDS and Geosyntec off-site; site secured; no health and safety incidents observed.

EM
8.2.10

Plans/Future Activities

DPT groundwater sampling

Joey M 8.2.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA-CRHE
Project No.: FR1681
Contractors: EDS (J.R. + Davey)

Date: 8.3.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Weather: hot, sunny, clear skies (TM), little to no wind, partly cloudy

Observations/Issues of Concern

0700 EDS on-site; preparation for DPT groundwater sampling with 6620 DT track-mounted Geoprobe.
0712 Geosyntec on-site. EDS decontaminates DPT screens.
0720 EDS unable to hand auger current location, due to refusal at 2 ft bls.
0730 EDS attempted five locations in the ~~vicinity~~ (SW) vicinity of "D" location -- refusal encountered at 2 ft bls. NASA locator will check utilities in area later today. Groundwater quality equipment calibrated by Geosyntec.
0740 EDS mobilizes to "E" location -- renamed DPT0119.
0800 Geosyntec conducts a health and safety meeting with Geosyntec.
0810 DPT0119 drilling begins. ("E")
0830 DPT0119-010.0 collected.
0843 DPT0119-014.0 collected.
0848 NASA locators on-site to check "D" location for utilities.
0857 DPT0119-018.0 collected.
0905 NASA locators off-site.
0915 DPT0119-023.0 collected.

Plans/Future Activities

DPT groundwater sampling
Sample Depths:

10 = 8-12 ft BLS	33 = 31-35 ft BLS	48 = 46-50 ft BLS
14 = 12-16 ft BLS	38 = 36-40 ft BLS	
18 = 16-20 ft BLS	43 = 41-45 ft BLS	

Joey MK 8.3.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: ~~FR1681~~ (FW) NASA-CRHE
Project No.: FR1681
Contractors: EDS

Date: 8.3.10
Task No.:

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	Groundwater Sampling	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0953 0943 (FW) DPT0119-033.0 collected.
1035 (FW) 1013 DPT0119-038.0 collected.
1035 DPT0119-043.0 collected.
1100 DPT0119-048.0 collected
1115 DPT 0119 sampling activities complete. EDS mobilizes to "D" location and decontaminates sampling screens.
1125 EDS attempts to auger a borehole 24 ft South of "D" location but unsuccessful due to refusal at 2 ft bls.
1135 EDS attempts to auger a borehole approximately 19 ft north of "D" location, but unsuccessful due to refusal at 2 ft bls
1145 DPT 0120 drilling activities begin at "F" location.
1200 EDS and Geosyntec take a lunch break
1235 Geosyntec onsite.
1253 DPT0120-010.0 collected.
1305 DPT0120-014.0 collected.
1320 DPT0120-018.0 collected.

Plans/Future Activities

DPT Groundwater sampling

J. Mk. 8.3.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: ~~KSC~~ NASA-CRHE
Date: 8.3.10
Project No.: FR1681
Task No.:
Contractors: EDS

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	Groundwater sampling	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

1335 DPT0120 - 023.0 collected.
1357 DPT0120 - 028.0 collected. Anne (NASA) visited site.
1402 Anne off-site, EDS decontaminates sampling screens.
1415 DPT0120 - 033.0 collected.
1447 DPT0120 - 038.0 collected.
1500 DPT0120 - 043.0 collected.
1523 DPT0120 - 048.0 collected.
1530 DPT0120 sampling activities complete.
1535 EDS mobilizes to DPT021 and decontaminates sampling screens.
1550 DPT0121 drilling begins, at "G" location.
1608 DPT0121 - 010.0 collected.
1620 Grouting to land surface of previous sampling location boreholes complete.
1625 DPT0121 - ~~016.0~~ 014.0 collected.
1640 DPT0121 - 018.0 collected.
1658 DPT0121 - 023.0 collected. EDS disposes of purge water at drum staging area.
1715 Geosyntec and EDS off-site; site secured; no health and safety incidents observed.

Plans/Future Activities

DPT groundwater sampling.

8.3.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: ER1681
Contractors: EDS (S.R. or Darey)

Date: 8.4.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Weather: sunny, hot, partly cloudy, light winds

Observations/Issues of Concern

0700 EDS on-site; preparation for DPT groundwater sampling with Geoprobe 6620DT track-mounted rig and equipment maintenance conducted.
0712 Geosyntec on-site. EDS decontaminates DPT samplers.
0720 Geosyntec conducts groundwater quality meter calibration.
0735 Geosyntec conducts a health and safety meeting with EDS.
0740 DPT0121 drilling and sampling continues.
0757 DPT0121-028.0 collected.
0817 DPT0121-033.0 collected.
0837 DPT0121-038.0 collected.
0857 DPT0121-043.0 collected.
0920 DPT0121-048.0 collected. EDS decontaminates DPT samplers.
0935 DPT0121 sampling activities complete. Mobilization to DPT0122 ("4") conducted.
0945 DPT0122 drilling activities begin.
1005 DPT0122-010.0 collected.
1020 DPT0122-014.0 collected.
1030 DPT0122-018.0 collected.

Plans/Future Activities

DPT groundwater sampling
Sample Depths:
10 = 8-12 ft BLS
14 = 12-16 ft BLS
18 = 16-20 ft BLS
33 = 31-35 ft BLS
38 = 36-40 ft BLS
43 = 41-45 ft BLS
48 = 46-50 ft BLS

Joey MK 8.4.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA-CRHE
Project No.: FR1681
Contractors: EDS
Date: 8.4.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1047 DPT0122-023.0 collected. EDS decontaminates DPT samplers.
1105 DPT0122-028.0 collected.
1123 DPT0122-033.0 collected.
1145 DPT0122-038.0 collected.
1205 DPT0122-043.0 collected
1228 DPT0122-048.0 collected.
1240 DPT0122 sampling activities complete. EDS and Geosyntec take a lunch break.
1315 EDS begins preparation for pressure grouting of DPT0121 and DPT0122 boreholes. EDS decontaminates DPT samplers.
1325 Pressure grouting activities begin at DPT0122.
1335 Phase 1 weather in effect.
1350 DPT0122 pressure grouting complete.
1355 Pressure grouting activities begin at DPT0121.
1420 DPT0121 pressure grouting complete. EDS decontaminates DPT samplers.
1428 DPT0123 ("I") drilling activities begin
1432 DPT0123 location offset 3 ft to the northeast due to refusal.

Plans/Future Activities

DPT Groundwater activities

8.4.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: FR1681
Contractors: EDS

Date: 4 Aug 2010
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1510 DPT0123 - 010.0 collected.
1525 DPT0123 - 014.0 collected.
1543 DPT0123 - 018.0 collected. Geosyntec moves all empty drums onto spill pallettes.
1605 DPT0123 - 023.0 collected. EDS decontaminates DPT samplers at spill pad.
1623 DPT0123 - 028.0 collected.
1640 DPT0123 - 033.0 collected.
1700 DPT0123 - 038.0 collected. EDS begins breaking down work area for the day. Purge and decontamination water are disposed of at drum staging area.
1728 EDS and Geosyntec offsite; site secured; no health and safety incidents were observed.

8.4.10

Plans/Future Activities

DPT Groundwater sampling

8.4.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRTE
Project No.: FR1681
Contractors: EDS (J.R. + Davey)

Date: 8.5.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Weather: hot, sunny, partly cloudy, light winds

Observations/Issues of Concern

0700 EDS on-site; preparation for DPT groundwater sampling activities, with a track-mounted 6620DT (Tm) Rig, Geoprobe rig, conducted.
0715 Geosyntec on-site.
0720 Geosyntec conducts a health and safety meeting with EDS
0725 Geosyntec conducts calibration of YSI 556 MPS.
0730 DPT0123 sampling activities continue.
0745 DPT0123-043.0 collected.
0807 DPT0123-048.0 collected.
0815 DPT0123 sampling activities complete. Mobilization to DPT0124 ("J") conducted. EDS decontaminates DPT samplers.
0835 DPT0124 drilling activities begin. EDS picks up spill pallette covers.
0910 DPT0124-010.0 collected.
0915 Maintenance conducted on DPT rig
0933 Drilling activities resume.
0935 ~~DPT014.0~~ DPT0124-014.0 collected.
0947 DPT0124-018.0 collected.

Plans/Future Activities

DPT Groundwater Sampling
Sample Depths:
10 = 8-12 ft BLS 33 = 31-35 ft BLS 48 = 46-50 ft BLS
14 = 12-16 ft BLS 38 = 36-40 ft BLS
18 = 16-20 ft BLS 43 = 41-45 ft BLS

J. M. 8.5.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: FR1681
Contractors: EDS

Date: 5 Aug 2010
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1000 DPT 0124-023.0 collected.
1017 DPT 0124-028.0 collected. EDS decontaminates DPT samplers.
1033 DPT 0124-033.0 collected.
1050 DPT 0124-038.0 collected.
1105 DPT 0124-043.0 collected.
1125 DPT 0124-048.0 collected.
1137 DPT 0124 sampling activities complete. Mobilization to DPT 0125 ("K") conducted.
1150 EDS decontaminates DPT samplers.
1205 DPT 0125 sampling activities begin.
1205 DPT 0125-010.0 collected.
1210 EDS and Geosyntec take a lunch break.
1240 DPT activities resume.
1255 DPT 0125-018.0 collected.
1305 KSC utility locator on-site for locating activities.
1317 DPT 0125-028.0 collected.
1335 DPT 0125-033.0 collected. KSC locators off-site.

Plans/Future Activities

DPT groundwater sampling

8.5.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: FR1681
Contractors: EDS
Date: 5 Aug 2010
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1400 DPT0125-038.0 collected. EDS decontaminates DPT samplers
1422 DPT0125-043.0 collected.
1445 DPT0125-048.0 collected. Mobilization to DPT0126 conducted. EDS decontaminates DPT samplers
1455 DPT0125 sampling activities complete.
1510 Unsuccessful in attempt to hand auger "D" location again, due to refusal at 2 ft bls. DPT0126 moved to "T" location.
1515 Mobilization to DPT0126 conducted.
1520 DPT0126 drilling begins.
1540 DPT0126-010.0 collected
1555 DPT0126-018.0 collected. Grouting of all open boreholes complete to surface.
1610 DPT0126-028.0 collected.
1630 DPT0126-033.0 collected
1645 DPT0126-038.0 collected.
1715 DPT0126-043.0 collected. EDS off-site. Purge water disposed of at drum staging spill area.
1740 EDS and Geosyntec off-site; Site secured; no health and safety incidents observed

Plans/Future Activities

DPT groundwater sampling

8.5.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA-CRHE
Project No.: FR1691
Contractors: EDS
Date: 8.6.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: groundwater sampling
Well Inventory:
Other:
Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:
Weather: sunny, hot, partly cloudy, light winds

Observations/Issues of Concern

0700 EDS on-site; preparation for DPT groundwater sampling activities conducted. A 6620 DT Geoprobe track-mounted rig used for sampling.
0709 Geosyntec on-site. Calibration of YSI 556 MPS conducted.
0720 A health and safety meeting is conducted between Geosyntec and EDS.
0725 DPT0126 sampling resumes.
0735 DPT0126-010.0 collected.
0747 DPT0126 sampling complete. EDS decontaminates DPT samplers. Mobilization to DPT0127 conducted ("L" location).
0800 DPT0127 drilling begins.
0810 Geosyntec changes dissolved oxygen probe on YSI 556 MPS. D.O. values have seemed low.
0825 DPT0127-033.0 collected
0845 DPT0127-038.0 collected.
0905 DPT0127-043.0 collected
0920 DPT0127 sampling complete. EDS decontaminates DPT samplers. Mobilization to DPT0128 ("M") conducted. Sam Barfus (Geosyntec) on-site for utility locate.

Plans/Future Activities

DPT groundwater sampling
Sample Depths:
10 = 8-12 ft BLS
18 = 16-20 ft BLS
28 = 26-30 ft BLS
33 = 31-35 ft BLS
38 = 36-40 ft BLS
43 = 41-45 ft BLS
48 = 46-50 ft BLS

Joe M 8.6.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CRHE
Project No.: FR1681
Contractors: EDS
Date: 8.6.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0445 DPT0128 drilling begins.
1007 DPT0128 - 033.0 collected.
1030 DPT0128 - 038.0 collected
1050 DPT0128 - 043.0 collected.
1110 DPT0128 - 048.0 collected
DPT0128 sampling complete. EDS mobilizes to DPT0129 ("N") and decontaminates DPT samplers.
1118 Geosyntec takes a lunch break
1145 Geosyntec on-site. DPT0129 sampling begins.
1155 DPT0129 - 010.0 collected
1210 DPT0129 - 018.0 collected.
1225 DPT0129 - 028.0 collected.
1240 DPT0129 - 033.0 collected. EDS decontaminates DPT samplers
1300 DPT0129 - 038.0 collected. Light rain; weather Phase 1 in effect.
1315 DPT0129 - 043.0 collected. Heavy rain and thunder — Phase 2 weather.
1330 Tornado spotted -- Phase 3 in effect. EDS and Geosyntec take shelter inhibiting

Plans/Future Activities

DPT groundwater sampling

Joey MK 8.6.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: NASA - CEHE
Project No.: FR1681
Contractors: EDS

Date: 8.6.10
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: groundwater sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1350 Phase 3 lifted. Phase 2 in effect.
1445 Phase 2 lifted; Phase 1 in effect; DPT sampling resumes.
1510 DPT0129 - 048.0 collected.
1525 DPT0129 sampling activities complete. EDS decontaminates DPT samplers. Mobilization to DPT0130 ("P") conducted.
1530 Geosyntec samples IDW consisting of purge water in Drum# 178747. DPT0130 drilling activities begin.
1543 DPT 0130 - 033.0 collected.
1605 DPT0130 - 038.0 collected.
1630 DPT0130 - 043.0 collected.
1650 DPT0130 - 048.0 collected. EDS begins site demobilization for weekend.
1700 Purge and decontamination water dumped at drum staging area - IDW management conducted.
1728 EDS and Geosyntec offsite; site secured; no health and safety incidents observed.
1728

Plans/Future Activities

DPT groundwater sampling

8.6.10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Date: 8/9/10
Task No.: 12.2
Contractors: EDS - Glen Pennington + David Searfoss; KB Labs; Brad Weichert

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0600 Arrive at office. Calibrate and load equipment.
0700 Arrive on site. KB Labs on site. mark locations for utility locate. Check in with railroad mantainence office. OK to work along tracks.
0720 EDS on site. Conduct tailgate meeting. Sample DPT0131 (location R on map) at 31-35', 36-40', 41-45' and 46-50'.
1000 Sample DPT0132 (location O on map) at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' and 46-50'.
1230 Lunch
1330 Sample DPT0133 (location U on map) at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35', 36-40', 41-45' and 46-50'. Sample DPT0134 (location V on map) at 8-12', 12-16', 16-20' and 21-25'.
1745 Leave site.

Plans/Future Activities

DPT locations are hand augered to 5' and surface grouted.

Janet Barfus 8/9/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Date: 8/10/10
Task No.: 1.2.2
Contractors: EDS - Glen Pennington + David Searfoss; KB Labs - Brad Weichert

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0630 Arrive at office, Calibrate + load equipment.
0720 meet EDS + KB Labs on site. Conduct tailgate meeting. Sampled DPT0134 at 26-30', 31-35', 36-40', 41-45' and 46-50'.
0915 Sample DPT0135 (location X on map) at 8-12', 16-20', 26-30', 31-35' 36-40', 41-45' and 46-50'.
1130 Sample DPT0136 (? on west side of Contractor's Rd) at 31-35' and 36-40'.
1215 Lunch break
1245 Sample DPT0136 at 41-45', 46-50' and 61-65'.
1430 Sample DPT0137 (Location S on map) at 31-35', 36-40', 41-45' and 46-50'. Sample DPT0131 at 61-65'. Collect Sample from IDW drum #
1715 Leave site.

Plans/Future Activities

DPT locations are hand augered to 5' and surface grouted.

Janet Barfus 8/10/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Date: 8/11/10
Task No.: 12.2
Contractors: EDS- Glen Pennington + David Searfoss; KB Labs- Brad Weichert

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	X	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0600 Arrive at office. Calibrate + load equipment.
0700 Meet EDS + KB Labs on site. Conduct Tailgate meeting. Sample DPT0138 (western most ? next to RR tracks) at 8-12', 16-20', 26-30', 31-35', 36-40', 41-45' and 46-50'.
1000 Sample DPT0139 (next to RR tracks - East - on diagonal between DPT0129 + DPT0131) at 8-12', 16-20', 26-30', 31-35' 36-40', 41-45' + 46-50'. ~~and~~ RBH
1230 Lunch break
1300 Sample DPT0140 (Location W on map) at 8-12', 12-16', 16-20', 21-25', 26-30', 31-35', 36-40', 41-45' + 46-50'. Clean up site, Tie down spill pallets.
1700 Leave site

Plans/Future Activities

DPT locations are hand augered to 5' and surface grouted.

Initially got refusal at 2' at DPT0140. Called Pete and got OK to step out. Got refusal at 6 more locations before successfully sampling DPT0140.

Janet Barfuss 8/11/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: ~~FR18604~~ 1681 (JA)
Contractors: EDS → (JR & Davie) KB Labs (Glenn)
Date: 10/11/10
Task No.: 7.4.4

Work Performed

Well Installation:	no	Sampling Soil:	no
Soil Borings:	no	Sampling SW/Sediment:	no
DPT:	yes	Sampling Monitor Wells:	no
Well Inventory:	no	Sampling Hazardous Waste:	no
Other:	—	Sampling Drums:	no

Observations/Issues of Concern

0630: arrived @ office; met Jan; calibrated YSI & loaded car
0730: met EDS (Davie & JR) @ badging station
0745: arrived on site
0750: conducted tailgate; discussed hazards associated w/ DPT, PPE, scope of work
0815: Rebecca called; wanted to go to AA after A → scratch → go to B after A,
0820: set up @ DPT-0141
0935: Davie went to decon screens
1055: Finished DPT 141; Davie decon'ed ~~screens~~ screen & rods (JA), JR moved to DPT-142
1110: JR began hand augering DPT-142
1200: left site for lunch
1225: returned from lunch
1230: Pete from "utility locate" arrived onsite and investigated @ AA and AB
1235: called Rebecca to confirm where to go next; she requested AA → C → D → 139 → E
1310: Davie decon'ed screens
1423: Finished DPT 142; Davie decon'ed rods and ~~fitte~~ filed threads

~~Plans/Future Activities~~

1440: JR began hand augering DPT-143
1620: Davie decon'ed screens
1651: Finished DPT-143; Davie decon'ed rods & screens; JR moved to DPT-144
1705: JR began hand Augering DPT-144 → took 10' sample
1715: end of day

* completed: 20 samples
DPT 141 → 10', 18', 28', 33', 38', 43', 48'
DPT 142 → 10', 18', 28', 33', 38', 43', 48'
DPT 143 → 28', 33', 38', 43', 48'
DPT 144 → 10'

10/11/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: EDS - (Davie & JR) KB Labs (Glenn)
Date: 10/12/10
Task No.: 7.4

Work Performed

Well Installation:	no	Sampling Soil:	no
Soil Borings:	no	Sampling SW/Sediment:	no
DPT:	yes	Sampling Monitor Wells:	no
Well Inventory:	no	Sampling Hazardous Waste:	no
Other:	—	Sampling Drums:	no

Observations/Issues of Concern

0650: Arrived onsite; calibrated YSI
0700: Drillers arrived onsite
0715: I conducted tailgate; discussed emergency contact info; hazards, scope for the day
0730: began DPT 144 - 18'
0810: Davie deconned screens
0830: called Rebecca to check in
0920: Davie deconned screens
1032: Finished DPT-144; moved to DPT-145; Davie deconned rods - Davie filed rod threads; material is very hard & compact
1054: JR started hand augering DPT-145
1205: Davie deconned screens
1215: lunch
1245: returned from lunch
1350: Davie deconned screens
1437: Finished DPT-145; Davie deconned rods & screens; JR moved to DPT-139

~~Plans/Future Activities~~

1540: Finished DPT-139; Davie deconned rods and screens; JR moved to DPT-146) 1700 - Davie deconned screens
1725: Finished DPT-146
completed: DPT-144-18', 28', 33', 38', 43', 48', 53', 63'
DPT-145 → 10', 18', 28', 33', 38', 43', 48', 53', 63'
DPT-139 → 53', 63'
DPT-146 → 28', 33', 38', 43', 48'

24 samples

10/12/10
Signature/Date

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRITE
Project No.: ~~FR1686~~ FR1681
Contractors: EDS - Davie & JR KB Labs (Glenn)

Date: 10/13/10
Task No.: 7*4

Work Performed

Well Installation:	no	Sampling Soil:	no
Soil Borings:	no	Sampling SW/Sediment:	no
DPT:	yes	Sampling Monitor Wells:	no
Well Inventory:	no	Sampling Hazardous Waste:	no
Other:	—	Sampling Drums:	no

Observations/Issues of Concern

0630: arrived onsite; calibrated YSI
0700: EDS arrived
0710: conducted tailgate; discussed today's scope; RR safety; drum & IDW disposal
0735: Davie & JR dumped IDW while I supervised; no waste was spilled; bung screw was tightened ~~appropriately~~ appropriately
0745: Davie decon'ed and Filed rods
0750: JR moved to DPT-0147
1005: Finished DPT-0147; Davie decon'ed rods & screens
1030: began DPT-0148 - Davie grouted previous DPT locations
1114: Davie decon'ed screens
1232: finished DPT-0148; Davie decon'ed rods & screens
1240: began mob process
1350: lunch
1400: setup @ DPT-0149
1450: Davie decon'ed screens

Plans/Future Activities

1600: finished DPT-0149; Davie decon'ed rods and screen
1620: set up @ DPT-0150
1640: Finished DPT-0150 - 28'
1645: davie decon'ed screen; took purge water to spill pallet; dumped all water
1700: end of day

completed: DPT-147 → 28', 33', 38', 43', 48'
DPT-148 → 10', 18', 28', 33', 38', 43', 48'
DPT-149 → 10', 18', 28', 33', 38', 43', 48'
DPT-150 → 28'

10/13/10
Signature/Date

→ 20 samples

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRITE
Project No.: FR1681
Contractors: EDS (Davie & JR) KB Labs (Glenn)

Date: 10/14/10
Task No.: 7*4

Work Performed

Well Installation:	no	Sampling Soil:	no
Soil Borings:	no	Sampling SW/Sediment:	no
DPT:	yes	Sampling Monitor Wells:	no
Well Inventory:	no	Sampling Hazardous Waste:	no
Other:	—	Sampling Drums:	no

Observations/Issues of Concern

0630: I arrived onsite; calibrated YSI
0700: Drillers arrived
0720: I conducted tailgate; discussed decon procedures; issues dealing w/ traffic and working along the road.
0725: got started @ DPT-150
0830: Davie decon'ed screens
0940: Finished DPT-150; davie decon'ed rods & screens; JR moved to DPT-151
1120: Davie decon'ed screens
1210: lunch
1240: end of lunch
1330: finished DPT-151; Davie decon'ed rods and screens; JR moved to DPT-152
1453: Davie decon'ed screens
1630: Finished DPT-152; Davie Decon'ed rods & screens; JR moved to DPT-153

Plans/Future Activities

1715: Finished DPT-153-28'
1725: disposed IDW and decon water into drums
1735: end of day
completed: DPT 150: 33', 38', 43', 48', 53', 63'
DPT 151: 28', 33', 38', 43', 48', 53', 63'
DPT 152: 10', 18', 28', 33', 38', 43', 48'
DPT 153: 28'

21 samples

10/14/10
Signature/Date

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of

Project: CRTE
Project No.: FR1681
Contractors: EDS (Davie & JR) KB Labs (Glenn)

Date: 10/15/10
Task No.: 7*4

Work Performed

Well Installation:	no	Sampling Soil:	no
Soil Borings:	no	Sampling SW/Sediment:	no
DPT:	yes	Sampling Monitor Wells:	no
Well Inventory:	no	Sampling Hazardous Waste:	no
Other:	—	Sampling Drums:	yes

Observations/Issues of Concern

0620: arrived onsite; I calibrated the YSI
0700: Drillers arrived
0715: tailgate; I went over decon procedures and reinforced importance of PPE's
0730: set up @ DPT-153
1020: finished DPT-153; Davie decon'ed screens; JR moved to DPT-154
1230: finished DPT-154
1230 – 1250: lunch
1250 - Davie decon'ed screens; JR moved to DPT 155
1530 - finished DPT 155
1600 - cleaned up site; Davie & JR loaded drill rig onto trailor
1630 - ~~dropped spill pallet off~~ JA took IDW samples from drums
1650 - dropped off spill pallet @ CMS
1700 - dropped off Drum @ GBA
1715 - offsite; end of day

~~Plans/Future Activities~~

Completed:
DPT-153: 33', 38', 43', 48', 53', 63'
DPT-154: 10', 18', 28', 33', 38', 43', 48'
DPT-155: 10', 18', 28', 33', 38', 43', 48'
(20 samples)

10/15/10
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CLNA
Project No.: FR1081
Contractors: DMS

Date: 5/11/11
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1330 Begin Marking paths for additional Trail Clearing. Comments on Trail markers will be included on a marked up Site Figure and added to project folder.

Plans/Future Activities

5/11/11
Signature/Date

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CR42 FA1600 FA1681
Project No.:
Contractors:

Date: 5/12/11
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1230 Continue marking path of proposed new trails.
1700 Depart Site - Trail marking Complete.

Plans/Future Activities

5/12/11
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: Contractors Road
Project No.: FR1681
Date: 10-19-11
Task No.: 17.2
Contractors: EDS - Chris Phelps & Keith Olsen
KB Labs - Glenn Jackson

Work Performed

Well Installation:
Soil Borings:
DPT: 0156, 0157, 0158, 0159
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0620 - Arrive at TVL office; calibrate YSI
0720 - Arrive on-site; locate staging areas, talk to Dave about decon pit / spill pallet area
0745 - Tailgate safety meeting - COCs, hard hat, heavy equipment
0810 - Speak to a man inside the building where Michael Palmer used to be - he said we can stage our spill pallet near the decon pit
0905 - Begin drilling location A (DPT 0156); 26-30 @ 0924
31-35 @ 0937; 36-40 @ 0949; 41-45 @ 1003; 46-50 @ 1019 decon screens grout
1049 - Begin drilling location B (DPT 0157); 26-30 @ 1106
31-35 @ 1118; 36-40 @ 1230; 41-45 @ 1245; 46-50 @ 1302 decon screens grout
1145 - Took sample of Drums IDW 185534 & 185535
1340 - Begin drilling location C (DPT 0158); 26-30 @ 1347; 31-35 @ 1403
36-40 @ 1420; 41-45 @ 1435; 46-50 @ 1451; decon screens; grout
1542 - Begin drilling location L (DPT 0159); 26-30 @ 1601; 31-35 @ 1613
36-40 @ 1628; 41-45 @ 1644; 46-50 @ 1657; decon screens; grout

Plans/Future Activities

*Note: Very close to the KSC highway - only cones are setup as warning
1720 - Leaving site; put decon water in drum 185538

10-19-2011
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: ~~Wilson~~ Contractors Road
Project No.: FR 1691
Contractors: KB Labs - Glenn Jackson
EDS - Chris Phelps & Keith Olsen

Date: 10-20-2011
Task No.: 17*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0160, 0161, 0162, 0163
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 - Arrive at TVL office - calibrate YSI
0730 - Arrive on site; mobilize and setup decon pit
0740 - Tailgate safety meeting - road hazards for our locations
0750 - Begin drilling DPT0160 @ location M; 26-30 @ 0807
31-35 @ 0820; 36-40 @ 0833; 41-45 @ 0850; 46-50 @ 0910 - decon & grout
0940 - Begin drilling DPT0161 @ location ~~R~~ S; 26-30 @ 0950; 31-35 @ 1026
36-40 @ 1040; 41-45 @ 1055; 46-50 @ 1114 - grout/decon screens
I relocated 2 stakes to location R & S - the previous stakes were not in the correct area/spot
1130 - Begin drilling DPT0162 @ location S; 26-30 @ 1141; 31-35 @ 1154
36-40 @ 1249; 41-45 @ 1304; 46-50 @ 1322; 51-55 @ 1339; 61-65 @ 1401
1215 - 1230 lunch
1415 - Begin drilling DPT0163 @ location R; 26-30 @ 1428; 31-35 @ 1501
36-40 @ 1515; 41-45 @ 1531; 46-50 @ 1547
1800 - Empty purge & decon water in drum 185538 & 185537
1620 - Leave site;

Plans/Future Activities

10-20-2011
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: Contractors Road
Project No.: FR1681
Date: 10-21-2011
Task No.: 17*2
Contractors: EDS- Keith Olsen & Chris Phelps
KB Labs- Glenn Jackson

Work Performed

Well Installation:
Soil Borings:
DPT: 0164, 0165
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630- Arrive at TVL office; calibrate YSI
0720- Arrive on-site - setup decon pit, decon screens
0740- Tailgate safety meeting - road hazards, plan for day
0750- Begin drilling DPT0164; 26-30 @0804; 31-35 @0834
36-40@0852; 41-45@0909; 46-50 @0924; 51-55@0942; 61-65@1023
decon screens after 51-55; grout 1052
1040 ~~0950~~ - Begin drilling DPT0165; 26-30@~~0949~~ 1055; 31-35@1104; 36-40@1119
41-45@1134; 46-50@1148
1220 - Clean up decon pit - empty purge & decon water in drum 185537
1235 - Sample IDW drums 185537 & 185538
1240 - Clean up decon pit & break down to mobilize to HMF North
1300 - Leave site

Plans/Future Activities

10-21-2011
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: FR1681 - CRTE
Project No.: FR1681
Contractors: Boart Longyear

Date: 12.19.11
Task No.:

Work Performed

Well Installation: -
Soil Borings: SB0005
DPT: -
Well Inventory: -
Other: -

Sampling Soil: -
Sampling SW/Sediment: -
Sampling Monitor Wells: -
Sampling Hazardous Waste: -
Sampling Drums: See Drum Log.

Observations/Issues of Concern

0850 J. McKinnon (Geosyntec) arrives at Badging Station (KSC-NASA); obtains badge.
0918 Boart Longyear (V. Scott, J. Kiever, J. Smith, S. Conley) arrive; obtain badge.
0930 Mobilization to Contractor's Road Site (CRTE).
0940 Geosyntec conducts a health and safety meeting with Boart Longyear (BL).
0950 Unloading of equipment and preparation for soil boring activities using a sonic rig. Geosyntec checks in with site personnel.
1020 Geosyntec and BL off-site to pick up drum staging platforms
1120 On-site -- mobilize to SB0005.
1200 Geosyntec offsets SB0005 approximately 30 ft NW. S. Conley and BL support truck off-site.
1230 Lunch.
1310 BL fills water truck at CRTE decontamination area.

Plans/Future Activities

12.19.11
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR1681
Contractors: BL
Date: 12.19.11
Task No.:

Work Performed

Well Installation: -
Soil Borings: SB0005
DPT: -
Well Inventory: -
Other: -

Sampling Soil: -
Sampling SW/Sediment: -
Sampling Monitor Wells: -
Sampling Hazardous Waste: -
Sampling Drums: See Drum Log

Observations/Issues of Concern

1420 NASA locator clears new SB0005 location; off-site.
1430 SB0005 boring installation begins. At each location, BL will hand auger to 5 ft bls, collect a continuous soil core to 80 ft bls, decontaminate drill rod, and place decontamination water, soil cuttings, and drill fluid in 55 gal drums at the approved IDW staging area. Geosyntec will conduct lithology description, photo documentation, documentation, and drilling oversight. See all attached field forms.
1600 SB0005 boring complete. BL fills water tank.
1640 BL pressure grouts from bottom to land surface to abandon SB0005.
1715 SB0005 abandonment complete. De-mobilization and IDW management conducted.
1820 Geosyntec and BL off-site; site secured; no health and safety issues observed.

Plans/Future Activities

- Soil borings
- Monitoring well installation

12.19.11
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR1681
Date: 12.20.11
Task No.:
Contractors: Boart Longyear (V. Scott, J. Kiaver, J. Smith)

Work Performed

Well Installation: MW0022, MW0023
Soil Borings: SB0006, SB0007
DPT: -
Well Inventory: -
Other: See attached field forms.

Sampling Soil: -
Sampling SW/Sediment: -
Sampling Monitor Wells: -
Sampling Hazardous Waste: -
Sampling Drums: See Drum Log

Observations/Issues of Concern

0707 J. McKinnon (Geosyntec) and Boart Longyear (BL) on-site at Badging Station; mobilize to CRTE.
0720 Geosyntec conducts a health and safety meeting with BL; special topic = Site traffic and utilities.
0730 BL mobilizes equipment to SB0006.
0800 BL sets up sonic rig at SB0006, fills water truck, and constructs work zone. Geosyntec checks in with Site personnel.
0830 SB0006 boring installation begins; hand auger to 5 ft bls.
0850 SB0006 drilling begins.
1020 SB0006 drilling complete. BL back plugs 80 - 70 ft bls, and installs MW0022.
1105 Lunch. Bentonite seal hydrates.
1145 MW0022 installation continues.
1345 MW0022 installation complete. BL mobilizes to SB0007, fills water tank, and IDW management. Geosyntec moved SB0007 30 ft South due to proximity of heavy equipment.
1355 NASA locator clears new SB0007 location, BL sets up sonic rig

Plans/Future Activities

J. McK 12.20.11
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE	Date: 12.20.11
Project No.: FR1681	Task No.:
Contractors: BL	

Work Performed

Well Installation:	MW0022, MW0023	Sampling Soil:	-
Soil Borings:	SB0006, SB0007	Sampling SW/Sediment:	-
DPT:	-	Sampling Monitor Wells:	-
Well Inventory:	-	Sampling Hazardous Waste:	-
Other:	-	Sampling Drums:	-

Observations/Issues of Concern

at SB007, and water truck filled. BL sets up work zone
1415 SB0007 boring installation begins with hand augering to 5 ft bls
1425 SB0007 drilling begins.
1545 SB0007 boring complete. BL back plugs 80-70 ft bls and begins MW0023 installation.
1630 MW0023 bentonite seal hydrates. BL off-site to fuel rig.
1645 Geosyntec conducts IDW management.
1715 Geosyntec off-site, site secured, no health and safety issues observed.

Plans/Future Activities

- Monitoring well development
- De-mobilization

J. M. 12.20.11

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR1681
Contractors: Boart Longyear (V. Scott, J. Kiaver, J. Smith)

Date: 12.21.11
Task No.:

Work Performed

Well Installation: MW0022, MW0023
Soil Borings: -
DPT: -
Well Inventory: -
Other: Monitoring Well Development. See attached field forms.

Sampling Soil: -
Sampling SW/Sediment: -
Sampling Monitor Wells: -
Sampling Hazardous Waste: -
Sampling Drums: See Drum Log

Observations/Issues of Concern

0715 Geosyntec (J. McKinnon) and Boart Longyear (BL) at Badging Station; mobilize to CRTE.
0730 Geosyntec conducts a health and safety meeting with BL; special topic = weather phases.
0745 BL fills water truck and conducts preparation for monitoring well development activities and completion. Geosyntec checks in with Site personnel.
0758 Development of MW0023 begins.
0900 BL off-site to buy asphalt saw.
0940 MW0023 development stopped
1020 BL on-site. Grouting of MW0023 to surface begins.
1200 MW0023 installation complete. Pad construction begins at MW0023.
1310 E. Guyer (Geosyntec) on-site with sample kits and supplies. Geosyntec locates SB locations with GPS
1330 Geosyntec samples soil IDW. ~~BL grouts MW~~ MW0022 development begins.
1355 Geosyntec samples liquid IDW.

Plans/Future Activities

J. McK 12.21.11
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR1681
Contractors: BL

Date: 12.21.11
Task No.:

Work Performed

Well Installation: MW0022, MW0023
Soil Borings: -
DPT: -
Well Inventory: -
Other: -

Sampling Soil: -
Sampling SW/Sediment: -
Sampling Monitor Wells: -
Sampling Hazardous Waste: -
Sampling Drums: -

Observations/Issues of Concern

1410 E. Guyer off-site with IDW samples.
1430 MW0022 development complete. BL begins grouting of MW0022 to surface and pad completion.
1530 MW0022 complete. Geosyntec checks out with Site personnel. BL conducts de mobilization. IDW management conducted.
1645 Geosyntec and BL off-site, Site secured, no health and safety incidents observed.

EW 12.21.11

Plans/Future Activities

EW 12.21.11

J. M. 12.21.11
Signature/Date

FR1681 - CONTRACTOR'S ROAD 1/9/24

630 ALEX RIVERA (AR) ARRIVES @ BADGING STATION. - MEET W/EMILY LAWSON (EL) TO OBTAIN HASP, DRUM LABELS, ETC.

640 BADGING COMPLETE / AR CONTACTS BRAD WEICHERT (BW) OF KB LABS TO COORDINATE LAB EFFORTS FOR TODAY (SCHEDULED LAB HAS MECH. ISSUES AND WILL NOT BE AVAILABLE UNTIL TUESDAY.) - BW WILL CONTACT AR WHEN ON SITE

- AR REVIEWS LAB / DRILLER WO'S AND SCOPE OF WORK.

700 ENVIRONMENTAL DRILLING SERVICES (EDS) ON SITE - JR (LEAD DRILLER) AND SEAN (HELPER) / ~~ERS~~ MOBS TO OBTAIN DPT RIG (CURRENTLY @ L39B) / AR MOBS TO NOTIFY MIKE PALMER (MP) - NASA PER LAUREN PETTY (LP) REQUEST

- JILL JOHNSON (JJ) CALLS TO UPDATE LAB STATUS. (SEE ABOVE)

720 CHECK IN W/MIKE PALMER - OFFICE HAS RELOCATED TO OSSI 4200B - ~~H~~ 321-861-6253

- AR IDENTIFIES DRUM STAGING / DECON AREA FOR CONTRACTOR'S ROAD.

FRI 6/1 - NASA CRHE

750 EAS @ CROAD. - BEGIN SETUP OF DECON AREA. / AR OBTAINS ICE FOR SAMPLES

835 EAS SETS UP FOR DPT ACTIVITIES / AR REVIEWS HASP W/ STAFF TOPICS INCLUDE HEAT AWARENESS, WILDLIFE BASED ON LOCATION
- AR BEGINS CALIBRATION OF GW EQUIPMENT

840 EAS BEGIN H.A. OF LOCATION DPT 0166 ("M" ON MAP) TO W.T. ~3-4 FT BGS.

900 BEGIN DPT OF 0166 TO 30' BGS. RIG 662 DPT (GEOPROBE), 1.5 IN DIAM. RODS, 4 FT SCREENS (TOTAL OF 5FT) SS WIRE WOUND.

0915 SAMPLE DPT-0166 (26-30) / ADVANCE DPT TO 35' BGS.

0938 SAMPLE DPT-066 (31-35) / ADVANCE DPT TO 40' BGS.

0955 @ DEPTH OF 40' BGS (SCREEN 36-40), LOW VOLUME OF GW EXTRACTED, AR CONTACTS EL., TO DISCUSS, PER E.L., PRIORITY IS COLLECTING SAMPLES, 2ND IMPORTANCE IS WQ PARAMETERS ~~AR~~

1000 SAMPLE DPT-0166 (36-40) - NO WQ PARAMETERS RECORDED. - ADVANCE TO

1020 SAMPLE DPT 0166 (41-45) / ADVANCE DPT TO 50' BGS.

1040 SAMPLE DPT 0166 (46-50) / AR TRANSFERS ALL DPT-066 TO EB LABS FOR ANALYSIS.
- EAS EXTRACTS ALL RODS IN PREPARATION FOR DECON PROCAPURES PRIOR TO MOB TO DPT-0167 / SOIL CUTTINGS INTO BOREHOLE.
(TO GLEN JACKSON)
- APP. 4 GAL OF PURGE/DECON WATER GENERATED @ DPT-0166

1055 EAS DECONS ALL SCREENS USING STEAM WASH @ DECON AREA.

1105 L.P. UPDATED OF DPT ACTIVITIES VIA TEXT / EAS BEGINS H.A. OF DPT-0167 ("N" ON MAP.) TO W.T. ~4 FT BGS.

1134 BEGIN DPT OF 0167 TO 30' BGS.

1148 SAMPLE DPT 0167 (26-30) / ADVANCE DPT TO ~~35~~ 35' BGS.

1204 SAMPLE DPT 0167 (31-35) / ADVANCE DPT TO ~~40~~ 40' BGS.

1230 SAMPLE DPT 0167 (36-40) / ADVANCE DPT TO 45' BGS.

1248 SAMPLE DPT 0167 (41-45) / ADVANCE DPT TO 50' BGS

1307 SAMPLE DPT 0167 (46-48) / AR TRANSFERS ALL DPT-0167 TO G.S (EB LABS)

- EDB EXTRACTS ALL RODS IN PREPARATION FOR DECONTAMINATION PROCEDURES.

1313 EDB MOBS TO DECON AREA / AR UPDATES L.P. OF STATUS OF SAMPLING

- APP. 3.5 GAL OF PARGE / DECON WATER GENERATED FROM DPT-0169

- SOIL CUTTINGS (FROM H.A.) PLACED INTO BOREHOLE

1340 EDB RETURNS TO WORK AREA / H.A. TO WT. @ DPT-0168 ("0" ON FIGURE)

1345 BEGIN DPT OF 0168 TO 30' BGS

1355 SAMPLE DPT-0168 (26-30) / ADVANCE DPT TO 35' BGS.

1412 SAMPLE DPT-0168 (31-35) / ADVANCE DPT TO 40' BGS.

1432 SAMPLE DPT-0168 (36-40) / ADVANCE DPT TO 45' BGS.

1450 SAMPLE DPT-0168 (41-45) / ADVANCE DPT TO 50' BGS.

1512 SAMPLE DPT-0168 (46-50)

1515 AR TRANSFERS ALL DPT-0168 SAMPLES TO KB LABS (GJ.) / EDB EXTRACTS ALL RODS IN PREP. FOR MOB TO NEXT LOCATION

- EDB MOBS TO DECON AREA FOR PRESSURE WASH OF ALL TOOLING / SOIL CUTTINGS INTO BORE HOLE

- AR MOBS TO LOCATE ACCESS TO DPT-0169

FR16E1 NASA CRHE

1/9

1530 EDB SETS UP DPT RIG @ DPT-0169 ("K" ON FIGURE) / JR TO H.A. DPT-0169 TO WT (~4 FT BGS)

1605 EDB RETURNS TO DPT-0169 LOCATION

1610 BEGIN DPT OF 0169 (26-30)

1620 SAMPLE DPT 0169 (26-30) / ADVANCE DPT TO 35 FT BGS

1632 SAMPLE DPT 0169 (31-35) / ADVANCE DPT TO 40 FT BGS

1646 SAMPLE DPT 0169 (36-40) / ADVANCE DPT TO 45 FT BGS

1704 SAMPLE DPT-0169 (41-45) / ADVANCE DPT TO 50 FT BGS.

1718 SAMPLE DPT 0169 (46-50) / SAMPLES TRANSFERRED TO KB LABS (GJ.)

1725 ALL RODS EXTRACTED BY EDB / EDB MOBS TO DECON AREA TO DECON SCREENS USING PRESSURE WASH AND REMOVE LIQUIDS FROM DECON PIT

SIGNAL OF JOB

1745 REVIEW PROGRESS W/ L.P.

- SCHEDULED DPT LOC'S: E, F, G, H ON FIGURE

- MEET KB LABS @ GARGE STATION @ 2000

- AR, EDB DEMOB FROM SITE

FR1681 CRAE 3/10

645 ALEX RIVERA (AR) ON SITE @ NASA BADGING STATION. AR CONTACTS BOB GEORGE (BG), KB LABS @ 352-538-6507 OF ETA. BG EN ROUTE, WILL ARRIVE @ BADGING STATION MOMENTARILY.

705 AR CONTACTS JR (EAR) FOR DETAILS OF NEXT SCHEDULED BOREHOLE LOCATION AND ACCESS POINTS. BOREHOLE "E" (DPT-0170) LOCATED IN WOODED AREA WEST OF RAILROAD TRACKS (CONTRACT. ROAD)

- BG ON SITE @ BADGING STATION -

0710 AR BEGINS CALIBRATION OF GW EQUIPMENT

0725 AR COMPLETES CALIBRATION OF GW EQUIPMENT (SEE ATT. FORM)

- BG RECEIVES "ESCORT" BADGE - AR/BB MOB TO CONTRACTORS ROAD.

0740 KB LABS SETS UP IN GATED AREA NEAR DRUM STAGING (EAST OF CONTRACTORS ROAD)

- BG RECEIVED CALL THAT APPROPRIATE PAPERWORK FOR UNESCORTED BADGE LOCATED BY BADGE STATION; BG MOBS TO OBTAIN APPROPRIATE BADGING

0745 AR NOTIFIES R.R. OFFICE OF DRILLING IN WOODED AREA (NO CROSSING OF RR TRACKS)

FR1681 CRAE 1/10

*0750 - SAFETY TAILGATE W/ ALL STAFF

- EAR HAS H.A. TO WT (~4FT) @ LOCATION "E" (DPT-0170) / SET UP FOR DRILLING ACTIVITIES OF DPT-0170

0812 EAR BEGINS DPT OF 0170 TO 30' BGS

0823 AR SAMPLES DPT-0170 (25-30) / ADVANCE DPT. TO 35 FT BGS.

0836 AR SAMPLES DPT-0170 (31-35) / ADVANCE DPT TO 40 FT BGS / AR OBSERVES SPEC. CONDUCTANCE READING HIGH (COMPARED W/ YESTERDAY'S READINGS) - WILL ATTEMPT CAL CHECK. OF PROBES.

0845 CALIBRATION ERROR CORRECTED - NOTED ON CAL FORM.

0854 AR SAMPLES DPT-0170 (36-40) / ADVANCE DPT TO 45 FT BGS

0915 AR SAMPLES DPT-0170 (41-45) / ADVANCE DPT TO 50 FT BGS

0932 AR SAMPLES DPT-0170 (46-50)

- IN PROCESS OF RETRIEVING RODS FOR DECON, THE UP-DOWN (VERTICAL) LEVER ON DPT RIG BREAKS - JR TO ADDRESS MAINTENANCE OF LEVER.

1000 SEAN MOBS TO DECON SCREEN @ DECON AREA / AR DELIVERS ALL 0170 SAMPLES TO B.Q. / LAUREN PETTY UPDATED

FRI 8/1 CRHE

1030 SEAN/AR RETURN TO WORK AREA - PER JR, LEVER IS IN PROCESS OF TEMP. REPAIR. - MAY AFFECT OUTPUT DUE TO SLOWED PROGRESS.

1038 DPT-0170 HAS BEEN H.A. TO 4'BGS (INT ~ 3FT) / EDS BEGINS DPT OF ~~DPT-0170~~ 0171 ("F" ON FIGURE) TO 30'BGS.

1049 AR SAMPLES DPT-0171(25-30) / ADVANCE DPT TO 35 FT BGS.

1105 AR SAMPLES DPT-0171(31-35) / ADVANCE DPT TO ~~55~~ 40 FT BGS

1121 AR SAMPLES DPT-0171(36-40) / ADVANCE DPT TO 45 FT BGS.

1137 AR SAMPLES DPT-0171(41-45) / ADVANCE DPT TO 50'BGS

1155 AR SAMPLES PPT-0171(46-50) / ~~ADVANCE DPT TO~~ EDS EXTRACTS ALL RODS FOR DECON

1205 AR MOBS TO LAB W/ALL DPT-0171 SAMPLES / EDS MOBS TO DECON ALL TOOLING AND OBTAIN A SPILL PALLET FOR DRUM STAGING

1215 AR TO OBTAIN ADDT'L ICE FOR SAMPLE STORAGE; LOCATE BOREHOLE 'G' (DPT-0172) / I.P. UPDATED OF STATUS.

1300 EDS @ WORK AREA - SPILL PALLET HAS BEEN STAGED @ STAGING AREA - ALL SCREENS HAVE BEEN PRESSURE WASHED - BEGIN MOB TO "G" LOCATION (DPT-0172)

1315 EDS H.A. OF DPT-0172 TO 4'BGS (INT 3')

1333 EDS BEGINS DPT OF 0172 TO 30'BGS.

1346 AR SAMPLES DPT 0172(26-30) / ADVANCE DPT TO 35' BGS

1402 AR SAMPLES DPT 0172(31-35) / ADVANCE DPT TO 40 FT BGS

1418 AR SAMPLES DPT 0172(36-40) / ADVANCE DPT TO 45 FT BGS / AR TRANSFERS ABOVE 3-0172 INTERVALS TO B.G. (KB)

1436 AR SAMPLES DPT 0172(41-45) / JR. CONT. DPT ADVANCE TO 50 FT BGS - SEAN MOBS TO DECON 4 SCREENS / - AR CONFIRMS W/L.P. OF FINAL INTERVAL @ CURRENT LOCATION IS 65 FT. (NO 55-60 FT)

1500 AR SAMPLES DPT 0172(46-50) / JR EXTRACTS SCREENS & RODS FOR CONTINUED ADVANCEMENT

1510 SEAN ON SITE W/ DECON' RODS. / EDS ADVANCES TO 55 FT BGS

1526 AR SAMPLES DPT 0172(51-55) / EDS ADVANCES TO 65 FT BGS

1550 AR SAMPLES DPT-0172 (61-65) / EDS BEGINS EXTRACTION OF ALL CASING PRIOR TO MOB TO 0173 / AR TRANSPORTS REMAINING INTERVALS @ DPT-0172 TO FB LABS FOR ANALYSIS

1610 JR H.A. OF DPT-0173 ("H" ON FIGURE) TO 4' BGS

1618 EDS BEGINS DPT ADVANCE OF DPT-0173 TO 30' BGS.

1635 AR SAMPLES DPT-0173 (26-30) / EDS ADVANCES TO 35 FT BGS.

1647 AR SAMPLES DPT-0173 (31-35) / EDS ADVANCES TO 40 FT BGS.

1705 AR SAMPLES DPT-0173 (36-40) / EDS EXTRACTS ALL TOOLING FOR DECONT.

- EDS TO ALSO BREAK DOWN DECON PIT AND STAGE DECON/IDW DRUMS INTO STAGING AREA

- AR TO TRANSFER ALL SAMPLES TO FB.

1745 AR/EDS DEMOB FROM SITE /

- AR UPDATES L.P. OF PROGRESS - PER L.P., SCHEDULE TO CONTINUE DPT-0173 AND FOLLOW W/ "X" AND "C" ON FIGURE

CRHE - FRI 8/1 1/11

700 ALEX RIVERA (AR), EDS (SR + SEAN) ON SITE FOR CONTINUATION OF DPT ACTIVITIES IN WOODEN AREA WEST OF CONTRACTORS ROAD

0710 HEALTH AND SAFETY TAILGATE

0715 AR BEGINS CALIBRATION OF GAS EQUIPMENT (SEE CAL FORM)

- EDS SETS UP FOR DPT @ ~~DPT~~ 0173

0732 EDS CONTINUES DPT TO 45 FT BGS @ DPT-0173 / LAUREN PETTY (LP) UPDATED

0745 AR SAMPLES DPT-0173 (41-45) / DPT ADVANCES TO 50 FT BGS.

0805 AR SAMPLES DPT-0173 (46-50) / DPT ADVANCES TO 55 FT BGS

0825 AR SAMPLES DPT-0173 (51-55) / DPT ADVANCES TO 65 FT BGS.

0850 AR SAMPLES DPT-0173 (61-65) / EDS EXTRACTS TOOLING ~~DPT ADVANCES~~ @ DPT-0173 FOR DECON / PER PREVIOUS CONVO'S W/ L.P. (SEE 1-10-12)

APP. 4-5 GAL GENERATED

EDS WILL MOB TO LOCATION "X" ON FIGURE (DPT-0174)

0910 EDS MOBS TO DECON AREA FOR DECON OF SCREENS USING PRESSURE WASH/STEAM WASH USING FACILITY WATER. / AR TRANSPORTS SAMPLES TO FB LABS.

CRHE FRI681

0940 EDS RETURNS TO WORK AREA/ H.A. TO 4 FT BGS @ DPT-0174

0948 EDS BEGINS DPT OF 0174 TO 30' BGS.

1003 AR SAMPLES DPT-0174 (26-30)/EDS ADVANCES DPT TO 35 FT BGS.

1018 AR SAMPLES DPT-0174 (31-35)/EDS ADVANCES DPT TO 40 FT BGS.

1034 AR SAMPLES DPT-0174 (36-40)/EDS ADVANCES DPT TO 45 FT BGS

- AR MOBS TO TRANSPORT ALL DPT-0174 SAMPLES (TO 40' BGS) TO EB LABS.

1053 AR SAMPLES DPT-0174 (41-45)/EDS ADVANCES DPT TO 50 FT BGS.

1109 AR SAMPLES DPT-0174 (46-50)/EDS BEGINS EXTRACTION OF ALL TOOLING FOR DECON

1130 EDS MOBS TO STEAM PRESSURE WASH ALL SCREENS AND DISPOSE OF PURGE WATER FOR DPT 0174 (~3.5 GAL) @ DESIGNATED DRUM AREA. / JR MOBS DPT RIG TO 0175 (TO "C" ON FIGURE)

1154 EDS RETURNS TO WORK AREA/H.A. DPT-0175 TO 4' BGS.

1148 1155 - EDS BEGINS D.P.T. OF 0175 TO 30' BGS

1202 AR SAMPLES DPT-0175 (26-30) / EDS BREAKS FOR LUNCH

1230 EDS CONTINUES DPT ACTIVITIES @ DPT-0175 TO 35 FT BGS.

- AR UPDATES L.P. ON PROGRESS / L.P. REQUESTS DPT OF "A" (LOCATION FARTHEST EAST) AFTER DPT OF "B".

1248 AR SAMPLES DPT-0175 (31-35)/EDS ADVANCES DPT TO 40 FT BGS.

1304 AR SAMPLES DPT-0175 (36-40)/EDS ADVANCES DPT TO 45 FT BGS

1320 AR SAMPLES DPT-0175 (41-45)/EDS ADVANCES DPT TO 50 FT BGS.

1342 AR SAMPLES DPT-0175 (46-50)/EDS EXTRACTS ALL RODS FOR DECON / SR TO MOB TO DPT-0176 ("B" ON FIGURE)

1350 EDS MOBS TO STEAM PRESSURE WASH ALL SCREENS @ DECON AREA AND DISPOSE OF PURGE WATER @ AVAILABLE DRUMS @ STAGING AREA (~3.5 GAL)

- AR MOBS TO DELIVER ALL DPT-0175 SAMPLES TO EB LABS.

- PER NASA WEATHER OFFICE, RSC CURRENTLY IN PHASE I LIGHTNING WATCH

188675

CRTE FR1681

1/1

1426 - ERS RETURNS TO WORK AREA H.A. TO 4' BGS @ DPT-0176

1427 ERS BEGINS DPT-0176 TO 30' BGS

1437 AR SAMPLES DPT-0176 (26-30) / ERS ADVANCES DPT TO 35 FT BGS.
- PHASE I CANCELLED.

1455 AR SAMPLES DPT-0176 (31-35') / ERS ADVANCES TO 40 FT BGS.

1512 AR SAMPLES DPT-0176 (36-40) ERS ADVANCES TO 45 FT BGS.

1532 AR SAMPLES DPT-0176 (41-45') ERS ADVANCES TO 50 FT BGS.

1555 AR SAMPLES DPT-0176 (46-50) / ERS BEGINS EXTRACTION OF ALL RODS FOR DECONTAMINATION / AR MOBS TO DELIVER ALL 0176 SAMPLES TO KB LABS.

1620 AR ATTEMPTS LOCATING BOREHOLE "U" AND ACCESS POINT.

1640 AR CONTACTS JAN BARFUS (JB) W/TO PREVIOUSLY STAKED LOCATIONS FOR CRTE FOR UTILITY LOCATE - PER JB, LOCATIONS EAST OF CONTRACT. ROAD ~~HAM~~ WERE NOT STAKED DUE TO ACCESSIBILITY ISSUES -

CRTE FR1681

- AR CONTACTS L.P. TO UPDATE STATUS OF LOCATIONS EAST OF CONTRACTOR ROAD - PER L.P, @ BASED ON RESULTS THUS FAR, JILL JOHNSON HAS ELECTED TO SAMPLE LOCATION "J" ON FIGURE - AR NOTES LOCATION "J" IS CLOSE TO ROADWAY AND DUE TO SAFETY CONCERNS, WILL COMPLETE IN THE MORNING. @ ALSO, CLIENT WANTS TO ADD LOCATION WEST OF CONTRACTORS ROAD (NEAR DITCH AND DPT-0166) BUT IS CONTINGENT ON UTILITY LOCATE

1715 AR SAMPLES DRUM ID 188675 (80% FULL) AND DELIVERS TO LAB.

1730 ERS DEMOBS FROM SITE

1745 AR, KB LABS DEMOB FROM SITE.

CRHE FR1681 1/12

0715 ALEX RIVERA (AR) ONSITE @ PROPOSED BOREHOLE LOCATION "J" ON FIGURE
- AR REVIEWS ~~HAS~~ HEALTH AND SAFETY RE: WORKING NEAR ROADWAYS. / EDS STAFF HAVE SET UP ORANGE CONES AND HIGH VISIBILITY SAFETY VESTS

0730 - EDS SETS UP DPT RIG @ DPT-~~147~~(J) DUE EAST OF CONTRACTORS ROAD.
- AR MARKS OUT LOCATION Y (EAST OF DPT-0166, JUST WEST OF CANAL)

0745 AR SETS UP FOR CALIBRATION OF GW EQUIPMENT / EDS H.A. TO 4' BGS OF DPT-0177

0756 EDS BEGINS DPT OF 0177 TO 30' BGS

0826 AR SAMPLES DPT-0177 (26-30) / EDS ADVANCES DPT TO 35 FT / AR MOBS TO TRANSAMPLE 0177-28' AND ~~LOCAL~~ STAKE DPT-"U" FOR UTILITY LOCATE (EAST WOODED AREA, EAST OF CONTRACTORS ROAD)

0850 NASA UTILITY LOCATOR HAS CLEARED BOTH PROPOSED LOCATIONS AS DESCRIBED ABOVE / AR UPDATES L.P. OF STATUS.

0856 AR SAMPLES DPT-0177 (31-35) / EDS ADVANCES DPT TO 40 FT

CRHE FR1681 1/12

0918 AR SAMPLES DPT-0177 (36-40) / EDS ADVANCES DPT TO 45 FT BGS

0934 AR SAMPLES DPT-0177 (41-45) / EDS ADVANCES DPT TO 50 FT BGS

0952 AR SAMPLES DPT-0177 (46-50) / EDS EXTRACTS ALL RODS FOR DECONTAMINATION @ DECON AREA - ALSO PREPS DPT RIG FOR MOBILIZATION TO LOCATION "Y" (JUST ~~EAST~~ WEST OF WEST CONTRACTORS ROAD CANAL)
- JR WILL REVIEW LOCATION "U" TO IDENTIFY IF ACCESS FROM THE NORTH IS REQUIRED (WOULD REQUIRE ACCESS TO GEN. MAINT. SHOP (RG-1543))

1005 - AR MOBS TO DELIVER DPT 0177 SAMPLES TO EB LABS.

1020 AR, JR REVIEW PROPOSED LOCATION "U" (FAR EAST WOODED AREA), BASED ON OBSERVATIONS OF CONDITIONS, JR DEEMS COMPLETE AREA INACCESSIBLE DUE TO LOW LYING MARSHY ~~AREA~~ CONDITION.

1030 AR UPDATES LAUREN PETTY (LP) W/ CURRENT STATUS OF SAMPLING

1050 EDS SETS UP @ DPT LOCATION Y (DPT 017~~7~~) - LOCATED JUST WEST OF WESTERN CANAL UC (S.R.O.) / H.A. TO 4 FT BGS

Y12

1100 - BRAD FROM NASA HEALTH & SAFETY ON SITE FOR REVIEW OF SAFETY PROCEDURES

1115 BRAD DEPARTS WORK AREA - STATES SAFETY PROCEDURES ARE SATISFACTORY

1110 AR SAMPLES DPT-0178(26-30)/EDS ADVANCES TO 35 FT BGS

1129 AR SAMPLES DPT-0178(31-35)/EDS ADVANCES TO 40 FT BGS.

1145 AR SAMPLES DPT-0178(36-40)/EDS ADVANCES TO 45 FT BGS

1200 AR SAMPLES DPT-0178(41-45)/EDS ADVANCES TO 50 FT BGS.

1218 AR SAMPLES DPT-0178(46-50)/EDS ~~ADVANCES~~ EXTRACTS ALL TOOLING FOR DECON

1225 AR MOBS TO DELIVER ALL DPT-0178 SAMPLES TO KB LABS

1300 EDS MOBS TO GROUT ALL BORINGS

1400 EDS COMPLETES (1) GROUTING ALL BOREHOLES, (2) BREAKING DOWN DECON PAD (3) DISPOSING OF ALL IDW INTO DRUMS

1415 AR COLLECTS ONE IDW SAMPLE FROM DRUM NO. 188676; PALLET LABELED NO. 188677

1/12

1430 ALL SAMPLES DELIVERED TO KB LABS / EDS DEMOBS FROM SITE AR UPDATES L.P. OF DEPARTURE AND DEMOBS FROM SITE

Geosyntec consultants

DAILY FIELD REPORT

Project: CRITE
Project No.: FR1681
Contractors: GPI - Groundwater Protection Inc.
KB Labs
Date: 2-7-12
Task No.: 18#1

Work Performed

Well Installation: _____
Soil Borings: _____
DPT: X
Well Inventory: _____
Other: _____

Sampling Soil: _____
Sampling SW/Sediment: _____
Sampling Monitor Wells: _____
Sampling Hazardous Waste: _____
Sampling Drums: _____

GPI personnel - Scott Neilson, Nick Bishop
Geosyntec personnel - Cody Smith (CS)

Observations/Issues of Concern

06:00 CS (Geosyntec) arrives at Geosyntec Titusville office.
06:38 CS Arrives at NASA KSC Badging office.
07:01 CS, Scott + Nick (GPI) on-site at CRITE de-con area.
07:08 CS conducts Health and Safety Tailgate Meeting
GPI constructs de-con pit.
07:51 Bob (KB Labs) drops off sample bottles, cooler
GPI de-conning screens and rods.
09:10 Drilling commences at location DPT0159.
10:00 Drilling/Sampling completed at location DPT0159.
10:12 CS, GPI re-locate to Location DPT0161.
11:00 Drilling/Sampling completed at location DPT0161.
11:09 GPI re-located to de-con pit for de-con, then to the POL to pick up a spill pallet, then lunch break.
11:15 CS takes lunch break, off-site to NASA cafeteria
12:21 CS returns from Lunch break.
CS meets GPI at de-con pit.
12:35 Spill pallet moved to drum staging area.
13:06 Drilling commences at location DPT0167

Plans/Future Activities

CS

Cody Smith 2-7-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: GPI
KB Labs

Date: 2-7-12
Task No.: 18*1

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Geosyntec personnel: Cody Smith (CS)

Observations/Issues of Concern

13:58 Drilling / sampling completed at location DPT0179, Scott (GPI) re-locates to de-con pit for de-con.
14:06 Drilling commences at location DPT 0179
16:09 Drilling / sampling completed at location DPT0179
16:12 CS, GPI re-locate to location DPT 0180
16:37 Drilling / sampling completed for the day - One sample collected at location DPT 0180. 20 samples collected for the day. GPI re-locates to de-con pit.
17:08 GPI completes de-con, drumming of IDW and de-con water. Drums labeled, barcoded, spill pallet labeled / barcoded.
IDW drummed in drum # 188736, spill pallet #188737
17:12 GPI off-site.
17:31 CS off-site. Spill pallet racheted down, site secure.

Note: during sampling / drilling near roadway, 7 cones used to line road and mark work Area. No incidences to report

Plans/Future Activities

CS

Cody Smith 2-7-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Date: 2-8-12
Task No.: 1881
Contractors: Ground Water Protection Inc. (GPI)
KB Labs

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

GPI personnel: Scott Nielson, Nick Bishop

Geosyntec personnel: Cody Smith (CS)

Observations/Issues of Concern

06:20 CS arrives at Geosyntec Titusville office for calibration of YSI
06:45 CS departs office for site
07:08 CS arrives on-site, at de-con pit to meet GPI
07:15 CS conducts Health and Safety Tailgate Briefing
07:32 CS, GPI re-located to location DPT0180. Cones placed near road, rig.
07:35 Drilling commenced at location DPT0180
09:45 Drilling/Sampling completed at location DPT0180
CS, GPI re-locate to de-con area.
10:36 CS, GPI set up at location DPT0181
10:40 Drilling commences at location DPT0181. Six cones placed
(CS) ~~10:40~~ around rig to mark exclusion zone.
12:17 Drilling/Sampling completed at DPT0181
12:19 CS, GPI leave site for lunch break
13:12 CS, GPI return to site after lunch break
GPI de-cons screens
13:56 GPI, CS re-located to location DPT0182
13:58 Drilling commences at location DPT0182
15:32 Drilling/Sampling completed at location DPT0182
15:40 CS, GPI move to location DPT0183, then de-con pit.

Plans/Future Activities

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: GPI
KB Labs

Date: 2-8-12
Task No.: 18 * 1

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

16:33 Drilling commenced at location DPT0183
16:42 Drilling/Sampling completed for the day. CS, GPI re-located to de-con pit
17:02 de-con pit water collected, taken to drums in drum staging area.
17:08 IDW/de-con water drummed. Drum ≈ 75% full IDW drummed in drum #
17:12 CS offsite, to Geosyntec Titusville office
18:06 CS completes calibration of YSI, leaves office.

CS

Plans/Future Activities

Cindy Sommer 2-8-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Date: 2-9-12
Task No.: 18*1
Contractors: GPI - Groundwater protection Inc.
KB Labs

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

GPI personnel - Scott Melsan, Nick Bishop

Geosyntec personnel - Cody Smith (CS)

Observations/Issues of Concern

06:47 CS arrives on-site at de-con pit
06:51 GPI arrives on-site
06:55 CS conducts Health and Safety Tailgate Meeting
06:59 CS, GPI re-locate to location DPT0183.
CS checks in with CR office, site managers office (Mark Smith)
CS checks in with office of property just east of CR, where location DPT0183 lies.
07:05 Drilling commences at location DPT0183.
08:39 Drilling/Sampling completed at location DPT0183.
CS awaiting ~~for~~ update from Lauren Petty about next location.
GPI re-locates to de-con pit.
09:20 GPI de-conning.
CS Heads to N Kennedy parkway DPT locations to GPS
09:35 CS hears from Lauren to continue drilling/Sampling at location DPT0177.
09:51 GPI, CS re-locate to location DPT0177.
11:40 Drilling/Sampling completed at location DPT0177.
GPI leaves site for lunch.

Plans/Future Activities

Cody Smith 2-9-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR 1681
Contractors: GPI
KB Labs

Date: 2-9-12
Task No.: 18*1

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Geosyntec personnel: Cody Smith (CS)

Observations/Issues of Concern

11:44 Bob (KB Labs) picks up samples completed today.
11:45 CS leaves site for lunch break.
12:33 CS, GPI on-site. CS hears back from Lauren Petty to move to location A.
12:50 GPI re-locates to de-con pit.
13:15 GPI, CS re-locate to location DPT0184 (A)
13:27 Drilling/sampling commences at location DPT 0184
15:09 Drilling/Sampling completed at location DPT0184
GPI re-located to de-con pit
16:30 GPI re-located support truck and rig truck to location DPT 0184 to load rig.
16:47 GPI loads rig into truck, re-locates to de-con pit.
* during loading of rig, cones were used to block lane on Kennedy parkway, along w/ support truck following w/ hazard lights *
17:23 GPI disassembles de-con area, loads up.
GPI off-site; area clear by approval of CS.
17:37 CS completes sampling IDW, collecting GPS locations.
Site clean, spill pallet racketed down. CS off-site.

Plans/Future Activities

CRHE-IDW-188738-20120209 17:10 → IDW Samples
CRHE-IDW 188736 20120209 17:11

Cody Smith 2-9-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF
Project No.: FR 1681
Contractors: GPE
KB Labs

Date: 2-9-12
Task No.: 1881

Work Performed

Well Installation:
Soil Borings:
DPT: X
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Geosyntec personnel: Cody Smith (CS)

Observations/Issues of Concern

17:57 CS arrives at Geosyntec Titusville office for calibration.
18:50 CS leaves office.

CS

CS

Plans/Future Activities

Cody Smith 2-9-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project: CRAE	Date: 3/12/12
Project No.: FR16681	Task No.: 17.03
Contractors: GPE	

Work Performed

Well Installation: mw36, 37, 39, 39	Sampling Soil:
Soil Borings:	Sampling SW/Sediment:
DPT:	Sampling Monitor Wells:
Well Inventory:	Sampling Hazardous Waste:
Other:	Sampling Drums:

Observations/Issues of Concern

0900 Meet Drillers at badging station, GPE Drillers are Bryan Nazworth driller; Ben Yarema assistant. Mob to site
0913 Review drum staging area; drillers decon & prep equip.
932 Begin ~~Drilling~~ drilling mw38.
944 drilling mw38 complete; begin set, sand & seal.
951 mw38 complete (except surface completion); Begin drilling mw39.
1010 Drilling mw39 complete; Begin set, Sand & Seal.
1033 mw39 complete. Mob to drum staging area to ~~decon~~ pms
Set up decon pit & decon drive casing.
1040 Arrive ~~decon~~ drum staging area. Erica Williams of Innovative Health Applications (IHA) is @ Drum staging area ~~to~~ Inventorying drums to be Disposed of. Williams points out that one of the drums is Leaking and informs me that she has contacted the fire department ~~for~~ to respond to haz. mat.

Plans/Future Activities

3/12/12

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 2 Cont'd of 3

Project: CRHS
Project No.: FR 1681
Contractors:

Date: 3/12/12
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

Spill.
1045 Fire Depart and Police Arrive Site and Evacuate drum Staging area and Block Traffic in each direction on Contractors Road. Environment Health and Hazmat Spill Cleanup Crew arrives site. Hazmat Crew Begin pumping out drum, Spill Pallet and Leaking Drum. Anne Chrest and Bob Cline arrive Site. Bob Cline ask if GeoSyntec can Collect PH Values for each Liquid Drum. To avoid ~~Drill~~ DMS being in the way of Hazmat Cleanup Crew DMS and drillers Leave Drum Storage Area. Per Bob Cline's Request DMS Contacts Neil Stapley to Check his availability to Collect Ph in all Liquid drums. Stapley will be available Shortly after 1400 hrs. Drillers decon drive Casing.
1320 Drillers & DMS mob to mw 36.

Plans/Future Activities

3/12/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRMLP
Project No.: FA1681
Contractors: GPI

Date: 3/12/12
Task No.: 1743

Work Performed

Well Installation: See page 1 of 3
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1335 Set up on MW36.
1349 Drilling MW36 Complete, Begin Set, Sand & Seal.
1353 MW36 Complete, Begin MW37
1411 Drilling MW37 Complete; Begin Set, Sand & Seal.
1426 MW37 Complete. Mob to Decon Area
1430 Decon drilling tools. DMS & NRS collect Ph readings from existing purge/decon water.
1455 Drillers mob to MW-34.
1520 Drillers depart ~~site~~ site to buy materials & Build Forms, for 3'x3' pads - they only have Form for 2'x2' pads.
DMS Joins ~~STA~~ NRS in collecting Ph values and ~~Inventoring~~ DMS inventoring ~~drums~~. Drums
1615 Bob Cline arrives site and observes Ph results. Cline is convinced that Ph values are not declining after venting Drums. A second drum was found to be Leaking

Plans/Future Activities

By Hazmat Cleanup Crew. Drum was Labeled Decon Water but was half filled w/ ~~Water~~ DMS Liquid & half filled w/ Solids (appeared to be Soil returns & Bentonite).
1715 DMS & NRS Depart site.

3/12/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHS
Project No.: FR1681
Contractors: GPC

Date: 3/13/12
Task No.: 17.3

Work Performed

Well Installation: MW ~~73~~ 33, 34, 24, 25, 26
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

722 meet drillers on site. DMS Conducts tailgate meeting w/ Safety discussion. ~~MOBE~~ MOB to MW34.
738 Begin drilling on MW ~~33~~34
0804 Drilling on MW34 Complete; Begin Set, Sand & Seal.
0901 MW34 complete; ~~MOB~~ DMS Decon. Drive Casing.
940 MOB to MW33 proposed location, MW33 proposed loc. is in a swale - Speak to Lauren Petty about moving MW33 to a Higher elevation. Petty ask that MW33 be installed @ DPT 172 location. DMS Contacts ~~for~~ Jeff Mcdowell, Utility Locator who gives Clearance to move to DPT 172.
1020 Begin drilling MW33.
1109 Drilling MW33 Complete begin Set, Sand & Seal.
1119 MW33 Complete ~~MOBE~~ MOB to decon Area. Note: ~~DMS~~ DMS MW33 it was difficult to Reach 50' w/ Geoprobe 6620DT, DMS Contacts Lauren Petty to Get in touch w/ GPT management to See if a Larger Geoprobe is available

Plans/Future Activities

for the 50' wells

3/13/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHR
Project No.:
Contractors:

Date: 3/13/12
Task No.: 17+3

Work Performed

Well Installation: DNT ~~MW24, 25~~
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1213 Break for Lunch
~~1446~~ 1246 Return from Lunch; mob to MW24 & Begin drilling.
1301 Drilling MW24 Complete; Begin Set, Sand & Seal.
1311 MW24 Complete; Begin MW25
1332 Drilling MW25 Complete; Beg. in Set, Sand & Seal.
1339 MW25 Complete, Decon Drive Casing.
1430 Begin drilling MW26
1508 Drilling MW26 Complete; Begin Set, Sand & Seal.
1524 MW26 Complete; mob to decon area and decon drive casing.
1602 Begin Surface Completion for MW38 & MW39. DMS develops wells - See attached Well development log.
1749 All personnel Depart Site.

Plans/Future Activities

3/13/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHA
Project No.: FR1688.1
Contractors: GPI

Date: 3/14/12
Task No.: 17+3

Work Performed

Well Installation: MW 35
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0800 Arrive Badging Station.
0820 Jon Aguery of GPI Arrives, Badge Info. has not been submitted Per Jon. Dan meets Drilling crew onsite.
Drilling crew - Bryan & Ben mob to Badging Station to pick up barges ~~Dan~~ Dan DPT Rig from Jon.
0915 ~~Drillie~~ Dan Drillers return to site, Decon & set up on MW 35
1010 Begin drilling MW35
1142 Drilling MW35 Complete, Begin set, Sand & Seal.
1154 MW35 Complete, Mob to Decon pit & Decon prime Casing. Geoprobe hammer Seal Leaking Slightly - Fluid Cleaned up before getting on ground. ~~For the Fire~~ and ~~Dan~~ ~~50 45 and 50' wells~~ ~~groans on~~ Refusal is seen in all ~~45' and~~ ~~our~~ 40', 50' and 45' wells. Drillers pushed the limits of Geoprobe to install these wells but it is determined by GPI and Geosyntec that the Geoprobe

~~Plans/Future Activities~~

is undersized to complete these deeper wells. Alternative drilling techniques will be discussed among Geosyntec and GPI.
1212 All personnel Break for Lunch
1259 All personnel return from Lunch

3/14/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRLP
Project No.: FR1681
Contractors: GPE

Date: 3/14/12
Task No.: 1.4.3

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

Drillers begin Completing Surface completions; DMS Begins developing mws - see development Log

1724 Ph of ~~drillers~~ DMS water from drillers Tank is 7.19.

1804 All personnel Depart Site

Plans/Future Activities

3/14/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRMR
Project No.: FR1681
Contractors: CPI

Date: 3/15/12
Task No.: 1.3

Work Performed

Well Installation: mw30, 31, 32, 29, 28, 27
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Dms Arrives, Drillers are on site. Dms Conducts tailgate meeting w/ Safety discussion. Drillers prep. equipment &
0757 Begin drilling mw30. Dms Collects PH of Soil from 5-50' PH=7.0-7.5
832 Drilling mw30 Complete; begin Set, Sand & Seal.
837 mw30 Complete; Begin mw31
949 Attempt to Set well. Drive Casing filled from 45'-50' w/ Silt.
1019 Finished driving Second Set Drive Casing to 50' Re-set mw31, Sand & Seal.
1043 mw31 Complete; mob to decon pit.
1109 Begin drilling mw32.
1203 Drilling mw32 Complete; Begin Set, Sand & Seal.
1219 mw32 Complete, Break for Lunch
1256 Return from Lunch; Begin deconing drive Casing.
1323 Begin drilling mw27
1426 Drilling mw27 Complete; Begin Set, Sand & Seal.

Plans/Future Activities

1445 mw27 Complete; Decon drive Casing.
1423 Begin mw29
1611 Drilling mw29 Complete; Begin Set, Sand & Seal.
1624 mw29 Complete; Decon drive Casing.
1645 Begin mw28

3/15/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHK
Project No.: FR1681
Contractors: None

Date: 3/19/12
Task No.: 17 ~~8~~ 4

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells: MW38, MW39
Sampling Hazardous Waste:
Sampling Drums:

Develop MWS 27, 28 & 29

Observations/Issues of Concern

1425 Arrive p.o.l. & Pick up additional spill pallet
1435 Arrive Site, Set up & Begin developing Newly Installed MWs.
1620 Calibrate WQMs and begin Sampling MWs.
1645 Clean up & Secure Site for departure.

Plans/Future Activities

3/19/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: KSC-CRITE
Project No.: FR11681
Contractors: None

Date: 3-19-12
Task No.: 17#4 (MW Samp)

Work Performed

Well Installation:	-	Sampling Soil:	-
Soil Borings:	-	Sampling SW/Sediment:	-
DPT:	-	Sampling Monitor Wells:	✓
Well Inventory:	-	Sampling Hazardous Waste:	-
Other:	YSI 556MPS 09A131001, 2100P Turbidimeter 03054, GeoPump 14978 (Pink), Solinst Water Probe & hand tools	Sampling Drums:	-

Observations/Issues of Concern

0700 - Arrived @ TVL office collected equip shipped from Pitt & moved to NASA

0740 - Got a temp badge & finger printed for pass badge. Moved to CRITE. Conducted H&S tailgate. HASP overview, heat stress, insects & dehydration.

Personnel - D. Sizemore / Geosyntec TVL & L. Petty / Geosyntec Pcola

Weather - Sunny & Clear.

0830 - Calibrated equip. See calibration log for specifics. No apparent issues w/ calibration noted.

1020 - Began purging MW0032.

100 - Collected [CRITE-MW0032-03192012].

1120 - Moved to MW0030, began purging.

1205 - Collected [CRITE-MW0030-03192012]

1400 - Moved to MW0023 & began purging

1440 - Collected [CRITE-MW0023-03192012]. Drummed purge water in [1801776].

Plans/Future Activities

SEE PG 2

LP

Laura Petty / 3-19-2012
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: KSC-CRHE
Project No.: FR1681
Contractors: None

Date: 3/19/12
Task No.: 1744

Work Performed

Well Installation:	-	Sampling Soil:	-
Soil Borings:	-	Sampling SW/Sediment:	-
DPT:	-	Sampling Monitor Wells:	✓
Well Inventory:	-	Sampling Hazardous Waste:	-
Other:		Sampling Drums:	-

SEE PG 1

Observations/Issues of Concern

1450 - Mobed to MW0031, began purging well.
1525 - collected [CRHE-MW0031-03192012]
1530 - collected [2B01-03192012]. Mobed to IW0021I, began purging.
1640 - collected [CRHE-IW0021I-03192012]
1700 - Drummed purge water in [198676]. Generated overall drum log. Staged new spill pallet & drums for high pH liquid transfer.
1930 - Left site.

RECAP: Sampled → MW0032, MW0030, MW0023, MW0031, 2B01, IW0021I

All Purge water drummed in Drum # 198676 generated 3/19/2012

Plans/Future Activities

1. Continue sample activities
2. Collect GW levels (site-wide)
3. Transfer liquid from drums w/ high pH to poly-lined drums.

Tammy Perry / 3-19-2012
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRERF
Project No.: FR1068.1
Contractors: None

Date: 3/20/12
Task No.: 1.1.4 ~~3.6.4~~

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells: GW2 (+ MW36, 34, 33
Sampling Hazardous Waste: 35, 37,
Sampling Drums:

Observations/Issues of Concern

0645 Calibrate WQMs @ Titusville office.
~~0800~~ 0830 Arrive Site & begin Collecting GW Samples.
1530 GW Sampling Complete, begin Collecting Water Levels.
1830 Collecting GW Levels Complete; Clean up & Secure Site for departure.

Plans/Future Activities

3/20/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: KSC-CRITE
Project No.: PR1681
Contractors: None

Date: 3-20-12
Task No.: 1744

Work Performed

Well Installation:	-	Sampling Soil:	-
Soil Borings:	-	Sampling SW/Sediment:	-
DPT:	-	Sampling Monitor Wells:	✓
Well Inventory:	-	Sampling Hazardous Waste:	-
Other:	YSI 556 MPS 09A131001, 2100P Turbidimeter 03054, Geopump 14978 (Pine Rentals), Solinst water probe & hand tools	Sampling Drums:	-

Observations/Issues of Concern

0630 - Arrive @ site. Review H&S plan, COCs, pinch points, spills, traffic control & hazards, & drum contents transfer including JHA. Calibrated equipment. D. Sizemore onsite. No issues to note w/ calibration, see log for specifics. Weather is sunny & clear.
0730 - Conference call to discuss IDW BMPs & processes @ NASA.
0900 - Mobed to IW0019I, began purging well.
0940 - Collected CRITE-IW0019I-03202012.
0956 - Mobed to MW0028. Geopump no longer working. Mobed to TVL office to pick up spare pump & Tyvek for drum contents transfer.
1130 - Back @ CRITE. H&S (Bart) onsite for 5 min to discuss field activities & IDW Mgmt. Conducted H&S tailgate for drum contents transfer including PPE upgrade to Level D+ w/ poly-lined tyvek, 15 mil nitrile gloves extending to elbows over normal nitriles & face shields over safety glasses.
1145 - Began contents transfer. The liquid contents of 4 drums

Plans/Future Activities

SEE PG 2

3-20-12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: FSC - CRTE
Project No.: FR1681
Contractors: None

Date: 3-20-12
Task No.: 1754

Work Performed

Well Installation:	–	Sampling Soil:	–
Soil Borings:	–	Sampling SW/Sediment:	–
DPT:	–	Sampling Monitor Wells:	✓
Well Inventory:	–	Sampling Hazardous Waste:	–
Other:		Sampling Drums:	–

SEE PG 1

Observations/Issues of Concern

to poly-ethylene-lined drums (55-gal steel) for disposal. See drum log for pallet IDs & drum IDs. Contents transferred due to high pH.

Drum Transfer as follows:

198655 → ~~198837~~ 198837
198722 → 198839
198738 → 198843
198736 → 198844

0930 - Moved back to MW0028 & began to purge.
1420 - Collected ~~MW~~ CRTE-MW0028-03202012. Moved to IW0017I, began purging.
1510 - Collected CRTE-IW0017I-03202012
1520 - Drummed purge water in 198836. Tightened all bungs & cleaned off drums. Collected water levels on northern half of site. See water level form for data.
1902 - Left site.

Plans/Future Activities

RECAP: Collected water levels
Sampled → IW0017I
MW0028
IW0017I
Purge water drums in 198836 generated 3/20/2012

Transferred:
198655 → 198837
198722 → 198839
198738 → 198843
198736 → 198844

① Finish collecting GW samples
② Sample soil IDW generated w/o 3/12

Signature/Date 3/20/12

Geosyntec consultants

DAILY FIELD REPORT

Project: KSC-CRITE
Project No.: FR11081
Contractors: None

Date: 3-21-12
Task No.: 17#4

Work Performed

Well Installation:	-	Sampling Soil:	-
Soil Borings:	-	Sampling SW/Sediment:	-
DPT:	-	Sampling Monitor Wells:	✓
Well Inventory:	-	Sampling Hazardous Waste:	-
Other:	YSI 556 MPS 09A131001, 2100P Turbidimeter 03054 (PAM Rental) TVL Geopump, solinst Water Probe & Hand tools	Sampling Drums:	✓

Observations/Issues of Concern

0600 - Calibrated equipment @ hotel.
0700 - Mobed to TVL office, no key, Mobed to KSC. Received HASP plan. Personnel → L. Petty/Geosyntec P-cola, weather → sunny & clear, hot.
0740 - Mobed to IW0014I.
0905 - Collected [CRITE - IW0014I - 03212012], Mobed to IW0014D.
1000 - Collected CRITE - IW0014D - 03212012. Received CRITE (M) IW0014D was not part of SAP, will not analyze.
1025 - Mobed to MW0029, began purging.
1100 - Collected [CRITE - MW0029 - 03212012]
1115 - Mobed to MW0026, began purging.
1155 - Sampled [CRITE - MW0026 - 03212012], Drummed all purge water generated in [180636].
1210 - Left site to pick up drums from drillers for soil transfer.
1430 - Returned to site, drums were refirbed. New drums on way to site.

Plans/Future Activities

SEE PG 2 → Recap & will drop samples @ lab 3/22/12
NO more activities planned under probe.

Signature/Date 3-21-12

Geosyntec consultants

DAILY FIELD REPORT

Project: KSC-CRHE
Project No.: FR1681
Contractors: NDW

Date: 3-21-12
Task No.: 17#4

Work Performed

Well Installation:	-	Sampling Soil:	-
Soil Borings:	-	Sampling SW/Sediment:	-
DPT:	-	Sampling Monitor Wells:	✓
Well Inventory:	-	Sampling Hazardous Waste:	-
Other:		Sampling Drums:	✓

SEE PG 1

Observations/Issues of Concern

1445 - Moved to MW0022, began purging.
1507 - Collected [CRHE-MW0022-03212012], moved to MW0027, began purging.
1545 - Collected [CRHE-MW0027-03212012].
1000 - Met driller @ drums w/ new steel 55-gal drums. Transferred solids from [198656] → [198796]. ~~Generated~~ (P) started drum [198797] w/ soil generated during HSA & hand augering activities the week of 3/12/2012. Sampled soil drums generated week of 3/12/2012. Sample IDs are as follows: [CRHE-198649-IDW-03212012] sampled @ 1615. [CRHE-198797-IDW-03212012] sampled @ 1610. [CRHE-198642-IDW-03212012] sampled @ 1645, & [CRHE-198838-IDW-03212012] sampled @ 1702.
1710 - Moved to MW0024, began purging.
1750 - Collected [CRHE-MW0024-03212012], moved to MW0025, began purging.
1930 - Collected [CRHE-MW0025-03212012] ~~left site~~ (PD) Drummed purge water [198836]
1900 - Left site.

Plans/Future Activities

No more activities associated w/ Phase.

RECAP: Sampled MW0029, MW0026, MW0022, MW0027, MW0024 & MW0025 & Drums 198849, 198797, 198842 & 198838.
Purge water drummed in 198836.
Transferred solids from 198656 → 198797, filled 198797 to 2/3 w/ soil from Week of 3/12/2012 HSA & Hand augering.
pH normal ~7 SU.

Signature/Date 03-21-12

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRTE
Project No.: FR1681
Contractors: EDS (JR + Mitch)

Date: 10/2/12
Task No.: 17*2

Work Performed

Well Installation:
Soil Borings: I H G L
DPT: 0185, 0186, 0187, 0188
Well Inventory: ↓28, 33
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0640: At badging station. Waiting on EDS.
0650: EDS @ badging
0710: at site. Conducted safety Mtg
0720: EDS went to get spill pallet
0800: Started building decon pit
0810: at site (next to trails). Unload equipment. Move to location I (DPT0185)
0855: Started drilling DPT0185
1050: finished DPT0185
1100: decon'ed / lunch
1150: started H (DPT0186)
1320: finished DPT0186
1330: started G (DPT0187) (28, 33, 38)
1425: decon'ed
1440: continued DPT 0187 (43, 58)
1520: finished DPT0187

Plans/Future Activities

1545: moved to L (DPT0188)
1550: started DPT0188
1620: imminent Phase II
1630: disposed of purge/decon water in drums on spill pallet
1645: left site

weather: 321-861-5050
321-853-8486

10/2/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Contractors: EDS (JR & Mitch)

Date: 10/3/12
Task No.: 17.2

Work Performed

Well Installation:
Soil Borings: ~~0189, 0189~~ NWS
DPT: NWS ~~0188, 0189, 0190, 0191, 0192~~
Well Inventory: L ~~V8~~ A F ~~V16~~
Other:
DPTs → ~~V8 0174~~ ~~0149~~
0189(B), 0188(L), 0190(A), 0191(F), 0174(V8), 0149(V16)

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0715: Arrive at site
0740: EDS on site. Conducted Safety Mtg.
0750: Continued DPT0188 (38, 43, 58)
0900: finished DPT0188; deconned
0925: moved to V8 (DPT0174), started ~~DPT0189~~ 0174
0955: low yield - took just sample for ~~DPT0189~~ 0174 (53)
Tried 3 different tubing attempts before sample, possible clay layer
1025: finished DPT0189; moved to A (DPT0190)
1158: finished DPT0190; moved rig to F; deconned
1210: lunch; EDS working on getting rig out of wet ground
1305: Started DPT0190 (F)
1405: Safety person arrived on site. Informed Geosyntec all vehicles must be 2' off of roadways
1406: Safety person left.

Plans/Future Activities

1445: Finished DPT0191; moved to V16 (DPT0192) 0149
1450: Started DPT0192 0149
1525: Finished DPT0149 ~~deconned~~
1535: Moved to B (DPT0189), started DPT0189 (18, 23)
1600: Decon
1620: Continued DPT0189 (28, 33, 38, 43, 58)

~~MJ~~ 10/3/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRITE
Project No.: FR1681
Contractors: EDS (JR & Mitch)

Date: 10/3/12
Task No.: 17*2

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1725 : Finished DPT0189
1735 : Moved rig to ~~E (DPT0192)~~ parking lot
1740 : Decanned
1755 : Added purge and decon water into drums. Secured spill pallet.
1800 : Left for the office; EDS offsite

Plans/Future Activities

10/3/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1608.1
Contractors: EDS (JR & Mitch)

Date: 10/4/12
Task No.: 17*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0192(E), 0148(V6) 0138(V7)
Well Inventory: 0010 (V13), 0044 (V12)
Other: 0158(V9), 0193 (V10)

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0710: Arrive at site; EDS onsite; Conducted Safety Mtg
0720: Moved to location E (DPT 0192); driller truck get stuck twice
0800: Started DPT 0192
0810: Rocket launched from CC Air Station.
1006: Finished DPT 0192; decon grouted, truck stuck
1025: Moved to decon
1040: Moved to V6 (DPT 0148)
1050: Started DPT 0148
1105: rig overheated. Turned off to cool. Drillers working to fix problem.
1110: Geosyntec lunch.
1150: On the site
1200: Bart - NASA safety → discussed roadway work
1200: EDS continued DPT 0148

Plans/Future Activities

1240: Finished DPT 0148
1245: Moved to V7 (DPT 0138)
1250: Started DPT 0138
1300: Utility locators arrive onsite moved V5 12' west, V10 8' West, V11 8' West
1320: Utility locators leave

V6, V7, V9, V13

10/4/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS (JR & Mitch)

Date: 10/4/12
Task No.: 17.2

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1355: Finished DPT0138, moved to V13 (DPT0010)
1400: Took break to cool off; JR feeling weak & dizzy
1412: Started DPT0010
1435: No parameters collected for DPT0010 @ 053.0 due to low yield. Clay layer suspected.
1455: Finished DPT0010; moved to V12 (DPT0044)
1500: Started DPT0044
1540: Finished DPT0044; moved to V9 (DPT0158)
1545: decon
1600: Started DPT0158
1645: Finished DPT0158
1705: Started V10 (DPT0193)
1755: Finished DPT0193
1805: Decon, added Decon & purge water to drum
1810: left site for office

Plans/Future Activities

10/4/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of

Project: CTRE
Project No.: FR1681
Contractors: GDS- JR + Mitch | LB labs- Greg

Date: 10/5/12
Task No.: 17*2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT0194-0195, 0044, 0171, 0155
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

615-arrive@ office + begin calibrating YSI.
700-arrive on site. tail gate safety meeting.
710-rig won't start. go investigate standing water in woods while drillers work on rig.
910: rig still not starting. go take pictures of source area for Jill.
900 - Drillers leave to pick up part.
1036- drillers arrive w/part.
1040- rig is running
1106- began sampling DPT0194 (V11)*
1210- began sampling DPT0195 (V5)* (pressure grouted)
1329- began sampling DPT0044 (V12)*
1454- began sampling DPT0155 (V14)*
1512- lost extendable point in ground @ DPT0171.
1559- began sampling DPT0171 (V15)*.
1715- began sampling DPT0197 (V3)*. (pressure grouted)

Plans/Future Activities

1800- ~~dist~~ Rod rods broke down decon pit.
1930- disposed of IDW in drum
1930- sampled drum 190515 @ 1930
1945- left site
* = see sampling forms for details

10/5/12
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project: CRHE
Project No.: FR1681 / 25*2
Contractors: Environmental Drilling Services (EDS) JR/Shawn
New Age Landmark Lab=Celeste

Date: 3/18/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0196(Z), 0197(Y), 0198(AA)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0730	CT meets Celeste with New Age Labs at Badging office.
0740	CT/Celeste go to CCF to park Mobile lab
0800	CT/EDS on site at CRHE/Drillers set up decon pit/Safety Briefing COCs, PPE, Traffic Control Utilities Phase I/II warnings
0810	Locators (Jeff/Ryan) on site. Notified me of no dig restriction in place for Cat 1, 4, 5.
0832	Call Lauren Petty to inform of no dig ~~and file~~
0835	Speak with locators about any possibility of digging. Ryan says they can give special clearance to dig at locations east of building. No dig in place for location near ROW until Wed (if launch on Tues goes as planned).
0838	Call K.P. Ask if ok to begin with locations Y, Z, AA. Says yes
0858	Begin calibration
0915	Begin DPT0196 at Y. Meet refusal at 16"

Plans/Future Activities

	Locators give permission to punch through
0920	Locators can't approve locations A, B, C, E, G due to utilities/force main
0924	Call KP to inform. Says to contact her when drilling locations D and I. May need to vertically delineate

Signature/Date 3/18/13

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR11681
Contractors:

Date: 3/18/13
Task No.: 25x2

Work Performed

Well Installation:
Soil Borings:
DPT: 0196(Z) 0197(Y) 0198(AA)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0930 Continue DPT0196 at Y. Rig will not penetrate beyond 6". Abandon location.
0940 Begin DPT0196 at Z.
1008 Celeste drives on site. Says lab will be ready to analyze around 1400. Takes 4 hrs to warm up and she just got it hooked up.
1110 Call Locator Ryan to ask if location Y can be moved 3' W of approved location. He says "Yes as long as no lines are marked." No lines are marked w/in ~10'.
1134 L.P. called to ask why locations A-D,F,G were not going to be drilled. Told her D, F, G were good to go. Locators approved. A-C are located b/t the main electrical and water main. She says locators also told her vibrations from rig could bust(CT) compromise water main. LP says to delineate F vertically instead of D.

Plans/Future Activities

1200 Finish DPT0196 at Z / Drillers decon
1210 Break for lunch
1240 Begin DPT0197 at Y. Moved Y 3' due W of original location.
1422 Celeste picks up samples. We discuss delivering reports via email. She doesn't have internet connection. Checked with someone inside CRTE Building on accessing wifi. He will look into it

Signature/Date 3/18/13

Geosyntec consultants

DAILY FIELD REPORT

Page 3 of 3

Project: CRHE
Project No.: FR1681
Contractors: EDS
NewAge Lab

Date: 3/18/18
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 0196(Z) 0197(Y) 0198(AA)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1455 Finish DPT0191 at Y. Drillers decon / do rig maintenance.
1515 Begin DPT0198 at AA.
1700 Finish DPT0198 / Celeste picks up samples / Drillers decon / Drillers do decon pit maintenance
(CT)
~~1515~~ 1715 CT/EDS depart site / CT to TVL office to pickup map/air monitoring
1850 Calibration Check / Calibrate Equipment

Plans/Future Activities

Signature/Date 3/18/18

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRTIE / FEC
Project No.: FR1681
Date: 3/19/13
Task No.: 25+2
Contractors: Environmental Drilling Services (JR-Shawn)
New World Landmark Labs (Celeste)

Work Performed

Well Installation:
Soil Borings:
DPT: 0199, 0200, 0201, 0196 (68')
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0900 CT / EDS on site
0910 Tailgate Safety Meeting - Air Monitoring for VC / COCs / PPE
0940 Begin DPT 0199
0935 Finish DPT 0199 / celeste picks up samples / Drillers decon @ AC
0955 Begin DPT 0200 / L. Petty calls - asks if I can email analytical results to her & Johnston. I tell her about qualifiers, send file
1040 Johnson calls @ Asks how close drillers can drill next to existing hole to avoid dragdown @ Asks how far we can move from existing location without having locators reapprove. JR-EDS says 5' minimum because rig will move toward existing hole
1105 Call Johnson Says ~~Keep 0196~~ @ keep DPT 0196 open until she can confirm with A. Christ. Can pressure grout

Plans/Future Activities

DPT 0198. Keep 0197 open for now due to TCE exceedance at 58'
1150 Finished DPT 0200 / Break for lunch / Drillers decon @ CT
1245 Begin Drilling DPT 0201 at X
1300 L. Petty sends text message to go down same hole on DPT 0196. Get to 70' sample. Pressure grout 0197, 0198
1330 Celeste picks up samples.

Signature/Date 3/19/13

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTF
Project No.: FR1681
Contractors: EDS / New World Landmark Lab

Date: 3/19/13
Task No.: 25.2

Work Performed

Well Installation:
Soil Borings:
DPT: 0199, 0200, 0201, 0196(68')
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1445 ~~1400~~ (CT) Finish DPT0201. Text L Petty. Asking if it's ok to pressure grout 0196 after sampling. She says 'yes' ~~Drillers decon~~ (CT)
1450 Begin DPT0196-66'-70' interval
1510 Begin pressure grouting DPT0196.
1520 Begin calibration ICV on equipment
1530 Finish pressure grouting DPT0196. Move to DPT0198.
1600 Begin pressure grouting DPT0197.
1630 Finish pressure grouting DPT0197. Drill do rig maintenance.
1602 (CT) Call Celeste to ask why samples are taking so long to run. Says she's had to run a couple samples twice with a blank in between. Each takes 30 min. Relay info to L. Petty.
1645 Drillers do decon pit maintenance/empty decon / purge water
EDS / CT depart site

Plans/Future Activities

Signature/Date 3/19/13

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: Environmental Drilling Services (EDS/JR-Shawn)
New World Landmark Lab (Celeste)

Date: 3/20/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0202(V), 0203(S)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 EDS/CT on site/Drillers set up decon pit/Decon
0720 Tailgate safety briefing (weather warnings, hydration)
0730 Begin DPT 0202 at V
0930 Celeste picks up samples
0945 Finish DPT 0202/Drillers decon
0956 Phase II weather warning
1236 Phase II weather warning ends
1240 Begin DPT 0203(S)/Drillers decon
1435 Finish DPT 0203/Drillers decon
1350 Celeste picks up samples
1450 Begin DPT 0204(N)
1548 Finish sampling for day
1555 Begin pressure grouting DPT 0199, 0200, 0201
1600 Celeste picks up samples
1615 Begin equipment calibration
1710 Drillers do decon pit maintenance/Empty purge/decon water

Plans/Future Activities

1730 EDS/CT Leave site
1800 Scanned utility maps to K. Petty

Signature/Date 3/20/13

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Date: 3/21/13
Task No.: 25x2
Contractors: Environmental Drilling Services (EDS) JR/Shawn
New World Landmark Labs- Celeste

Work Performed

CT DPT Well Installation:
~~Soil Borings:~~ 0204(N), 0205(T), 0206(U),
CT DPT DPT: 0207(AB), 0202 66-70'(V),
~~Well Inventory:~~ 0203(AE)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700	CT/EDS arrive on site. /Drillers decon
0710	Tailgate Safety Briefing / PPE · COCs · Traffic / Equipment Awareness / Utilities / Weather Phase I/II
0715	Begin DPT 0204 at N
0825	Finish DPT 0204 / Drillers decon
0830	Begin DPT 0205 at T
1005	Finish DPT 0205 / Drillers decon
1010	Celeste picks up samples / Begin DPT 0206 at U
1210	Finish DPT 0206 / Problem with top valve of main ram Rig inoperational. JR calls Geoprobe / Lunch break
1330	Rig operational. Begin DPT 0207 at AB
1451	L. Petty texts to collect ~~5'-10'~~ 66-70' interval sample from DPT 0202, grout after collecting, grout 0204, wait for results before grouting 0203. If <MDL, grout 0203 first thing Friday morning

Plans/Future Activities

1525	Finished DPT 0207
1535	Begin DPT 0202, 66-70' interval
1555	Finished DPT 0202 / Drillers decon
1605	Begin pressure grouting DPT 0202 / CT calls Celeste to see when she will pick up. Says she's in the middle of running something and will be there soon.

Signature/Date 3/21/13

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS
New World Landmark Lab

Date: 3/21/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0204(N), 0205(T), 0206(W), 0207(AB)
Well Inventory: 0202, 66-70'(V), 0208(AE)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1611 Celeste picks up samples.
1618 Begin equipment calibration
1622 Discontinue calibration, decide to begin a new location
1626 Begin DPT0208 at AE
1730 Finish sampling DPT0208 / Begin calibration (CT)
1735 Pressure grout DPT0204
1753 Collect IDW193858 sample. / Drillers do decon
pit maintenance / Empty decon / purge water
1800 1755 Bring samples to Celeste
1805 EDS / CTowns depart site

Plans/Future Activities

C. Phil Towns 3/21/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: Environmental Drilling Services (EDS: JR/Shawn)
New Age, Landmark Lab (Celeste)

Date: 3/22/13
Task No.: 25.2

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	0208 (AE), 0209 (L), 0210 (H),	Sampling Monitor Wells:	
Well Inventory:	0211 (Q)	Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0700	CT/EDS on site / Drillers decon
0715	Tailgate Safety Meeting: Utilities, Traffic / Equipment Awareness (will be drilling in parking lot starting today)
0728	Begin DPT 0208 at AE
0820	Finish DPT 0208
0828	Begin DPT 0209 at I
0915	~~Celeste picks up samples~~
0836	Met complete refusal beyond 6" at I. Abandon location, move to L. / Text K. Petty to notify of refusal
0843	Begin DPT 0209 at L
0915	Celeste picks up samples. Ask her to prioritize 58' samples all day.
1039	Finish DPT 0209 / Drillers decon
1045	Begin DPT 0210 at H.
1225	Finish DPT 0210 / Celeste picks up samples / Drillers decon

Plans/Future Activities

1230	Begin DPT 0211 (Q)
1255	Finish sampling to CT. Drillers begin pressure grouting 0203, 0205, 0206, 0207, 0208, 0209, 0210
1600	Drillers top off holes, do rig maintenance
~~1425~~ 1625	Drillers empty decon/purge water / collect IDW sample
1635	CT drops samples to Celeste / Check calibration of equipment
1645	CT/EDS depart site

Signature/Date 3/22/13

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project: CRHE
Project No.: FR1681
Contractors: Environmental Drilling Services (EDS) Shawn/JR
New World Landmark Labs (Celeste)

Date: 3/25/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 0211(Q), 0212(R), 0213(K),
Well Inventory: 0214(O)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0715 CT/EDS on site
0725 Calibrate equipment. Drillers decon/set up pit
0735 Drillers pick up new drum pallet
CT conducts tailgate safety meeting (Utilities (will call locators today to verify a path the rig can safely travel in front of building), Weather warnings, COCs
0750 Begin DPT 0211 at Q
0937 Finish DPT 0211/Drillers decon
0940 Begin DPT 0212 at R
0930 Celeste picks up Samples
1052 Call L. Petty. ① ASK Celeste to change sample names from CHRE to CRHE ② If any locations need to be moved, document changes (X' N and X' W) for GIS ③ locators are scheduled to come out Thurs L.P will send map to TVL office to be printed showing next locations ④ Call locators-ask if they can stop by to approve driving rig

Plans/Future Activities

on grass in front of building, location X needs 25' stepout to S, location AC needs 2 stepouts: BG (25'N) and BH (25'S). Buy wooden stakes (tall) at Home Depot & upside down paint ⑤ Schedule next locate for Tues, April 2

Signature/Date 3/25/13

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS
New World Lab

Date: 3/25/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0211(Q), 0212(R), 0213(R), 0214(O)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1126 Call Ryan Osterly (locator) and asked about driving rig on grass. Said to avoid area that's barricaded. That's where mains are shallow and tend to bust.
1130 Finish DPT 0212 / Drillers decon
1137 Begin DPT 0213 at K
1218 Break for lunch
* Call Pine Environmental last Thursday (3/21/13) to ask about cal gas delivered on wed 3/20. Spoke to James. Told him I called on ~~Mon~~ Tues to inquire about cost about shipping cal gas for PID. Total cost would be ~$100. I told girl on phone I needed to ok the purchase with my PM before ordering. She said ok, no problem. I never ordered because VAB field workers had plenty I could use. I asked James to look into the matter and make sure we weren't charged.
1255 Begin DPT 0213.

Plans/Future Activities

1408 Finish DPT 0213 / Drillers decon
(CF) 1415 Begin DPT 0214 at O
1419 Celeste picks up Samples
1550 Finish sampling for day, DPT 0214 complete / Drillers begin pressure grouting 0209, 0210, 0211 (0209-0210 tagged off)
1600 Begin equipment calibration

Graphic Artist 3/15/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF
Project No.: FR1601
Contractors: EDS
New World Labs

Date: 3/25/13
Task No.: 25-02

Work Performed

Well Installation:
Soil Borings:
DPT: 0211-0214
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1048 Celeste picks up samples
1700 Driller do decon pit maintenance / empty decon & purge water
1715 EDS/GT depart site

Plans/Future Activities

Gayle Sound 3/25/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CAHE
Project No.: FR1681
Contractors: Environmental Drilling Services (EDS) - JR/Shawn

Date: 3/26/13
Task No.: 2.5.2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 0213 (16.6-10') K, 0215 (M),
Well Inventory: 0216 (P), 0217 (DG)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700	CT/EDS onsite. Drillers Set up decon pit/Decon
0720	Tailgate Health & safety briefing. Traffic awareness/Safety - cones, vests, looking for moving equipment
0735	Begin DPT 0213, 16.6-10' interval. (K)
0750	Collect Sample, pressure grout hole./Pressuregrout 0212 (K).
0815	Begin DPT 0214 at J. Met refusal at 6". Closer to building, more compact the material is/harder to advance. Abandon J. Text L. Petty.
0828	Begin DPT 0215 at M.
0835	Call Ryan Osterly (locator) to ask about moving up the Thurs. appt. He is on a big job & cannot come before Thurs. Says CT CAT 5 is on a No Dig Day today.
0843	Inform L. Petty. Says to drill location AD and only move 3' N.

Plans/Future Activities

0920	Call Ryan Osterly to schedule locate appt for next Tues, April 2
1020	locators (Ryan & Jeff) on site. Approve BG, BH, & 25' S of 'X'. For location AD, cannot move 10' S. Approved original location & location 3' due W.
1040	Finish DPT 0215./Drillers decon

Gupkl Jeuns 3/26/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS
New World Lab

Date: 3/26/13
Task No.: 25x2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 0213(K), 68' / 0215(M) / 0216(P)
Well Inventory: (0217) (BG)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1047 L. Petty notified. Says stepout 25' S of X is BJ, 25' N of X is BI.
1050 Drillers patch Asphalt / Begin DPT0216 at P.
1215 Break for lunch
1240 Celeste picks up samples / Begin DPT0216 again. Finish DPT0216 / Drillers decon Begin DPT0217 at BG
1525 Finish DPT0217 / Drillers decon
1528 L Petty texts, says to collect 68' sample from DPT0214
1540 Begin DPT0214, 66-70' interval
1605 Drillers pressure grout 0214(0). / Celeste picks up samples
1615 CT departs site. Drillers to topoff DPT0213 & DPT 0212, do decon pit maintenance, then depart.
1645 CT TO TVL office to pick up GPS

Plans/Future Activities

1705 Equipment calibration
1745 To lowes to buy stakes / spray paint

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Date: 3/21/13
Task No.: 25x2
Contractors: Environmental Drilling Services (EDS) JR/Shawn
New World Landmark Labs (Celeste)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 0218(AD), 0219(BH), 0220(F),
Well Inventory: 0216(66-70'), 0217(66-70')
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0707	CT/EDS on site/Drillers set up decon pit
0720	Tailgate Safety briefing. Utilities, weather warning phases, PPE
0730	Begin DPT 0218 at AP
0935	Finish DPT0218/Drillers decon
0940	Begin DPT0219 at BH/Celeste picks up samples
1155	Finish DPT0219/Drillers decon/Break for lunch/
1206	Collect IDW sample (193861)
~~1300~~ 1248	Begin DPT0220 at BJ/ met refusal at 1-2'. Abandon location until locators clear punch through
1300	Begin DPT0220 at F
1508	Finish DPT0220, collected 68' sample per L.P./ Drillers decon
1525	Begin DPT0216, 66-70', collect sample, drillers pressure grout
1537	L.Petty calls. Wants to move J 8' E, take picture of building layout that shows break room area. send to her
1605	Begin DPT0217, 66-70', collect sample, pressure grout
1625	Celeste picks up samples
1635	CT GPS week 3 locations/Drillers pressure grout 0215(M). Then to do decon maintenance

Plans/Future Activities

Signature/Date 3/21/13

~~1730~~

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS
New World Labs

Date: 3/21/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT 0218(AD), 0219 (BH), 0220 (F),
Well Inventory: 0216 (66-70'), 0217 (66-70')
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1738 CT Depart Site / Vacuum car
1900 Calibration check/calibrate equipment

Plans/Future Activities

Signature/Date 3/21/13

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRTE
Project No.: FR1681
Contractors: Environmental Drilling Services (EDS) JR | Shawn
New Age Landmark Labs (Celeste)

Date: 3/28/13
Task No.: 25 x 2

Work Performed

Well Installation:
Soil Borings:
DPT: 0221(D), 0222(G)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0730 EDS | CT on site / Drillers decon | set up decon pit
~~0735~~ 0720 Tailgate safety meeting - Utilities, what to do if water line is ever hit (move away from rig!), traffic awareness | Safety, Exclusion zone
0730 Begin DPT 0221 at D
0800 Locators (Ryan | Jeff) on site. In reference to BJ, They cannot give permission anymore to punch through due to our regulations stating drillers must hand auger to 5'. Cannot approve I due to travel trailer parked over it. For BJ, will approve a nearby spot that we can try to see if no refusal.
0805 Building Layout Pic: N is to the R, W is up
112: Break area 114: Locker area 121: Lockers, water cooler 118: Storage room 114B: Janitors closet 100: desks, office 102: office 104: office 106: office 119: storage

Plans/Future Activities

0905 Lpetty would like to drill in 104 or 100. N side. Its important for completion of job. BJ: can step up N. Stay W/in 5'. Step out 25' N of BJ → Mark this
0920 call Locator Ryan to ask about approving a building location. He says they will not approve. I informed him other people have drilled in buildings recently.

Gupta Jeevan 3/28/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR1681
Date: 3/20/13
Task No.: 25*2
Contractors: Environmental Drilling Services (EDS) JR/Shawn
New Age Landmark Labs (Celeste)

Work Performed

Well Installation:
Soil Borings:
DPT: 0221(D), 0222G
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0940 Finish DPT 0221 / Drillers clean / Claire Osborn on site
0955 Begin DPT 0222 at G
1145 Celeste picks up samples / Finish DPT 0222
1200 Break for lunch / CT departs site
1220 Drop GPS off at TVL office

Plans/Future Activities

Crystal Young 3/20/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF
Project No.: FR1681
Date: 3/28/13
Task No.: 25 & 12
Contractors: EDS - JR & Shawn. New Age/Landmark Inc - Celeste Wheeler

Work Performed

Well Installation: NA
Soil Borings: NA
DPT: Temporary sample locations
Well Inventory:
Other: Geoprobe 6620DT, peristaltic pump & Tubing provided by EDS, YSI (556 MPS/10A100199) rented from Pine.

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

930: Arrived onsite. Left tampa at 715. Assisted 1 picked up badge before proceeding to site / watched Crystal Towns on the process
1200: Broke for lunch. Crystal Towns left site
1240: Started to work again. Started at 223 (BJ) For each ~~well~~ location, & a sample (covers) was taken at 8 different depth intervals. For each depth interval readings for pH, conductivity, DO, Temp. Salinity, TDS, ORP, & color were measured. 3 times (GW parameters)
Groundwater samples were collected using a ~~Temporary wells were installed with a~~ DPT rig (EDS). The firs 5' were hand cleared by hand (hand auger).
1253 Started to take GW parameters at depth interval 8-12 ft bgs (feet below ground surface)
1259 Took CVOC sample for 223 (8-12)
1300 crew started to drill to 16-20 interval after removing tubing & deconing equipment

Plans/Future Activities

3/28/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTF
Project No. FR1661
Contractors: see page 1

Date: 3/28/13
Task No.: 25.02.02

Work Performed

Well Installation: ~~temp wells~~
Soil Borings: NA
DPT: Groundwater sampling
Well Inventory: NA
Other: see page 1

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

This takes place after each interval

1302 started taking GW parameters at ~~16-20~~ 16-20 ft bgs depth interval. 3 different readings
1309 took sample @ 223 (16-20) — location — depth interval
1314 started taking parameters at 223 (21-25)
1320 sampled 223 (21-25)
1324 start taking parameters @ 223 (26-30)
1330 sampled 223 (26-30)
1334 started taking GW parameters @ 223 (31-35)
1340 sampled 223 (31-35)
1344 started taking GW parameters @ 223 (36-40)
1350 sampled 223 (36-40)
1407 started taking GW parameters @ 223 (41-45)
1413 sampled 223 (41-45)
1420 started taking GW parameters @ 223 (56-60)
1428 sampled 223 (56-60)

Plans/Future Activities

3/28/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTF
Project No.: FR1681
Contractors: see page 1

Date: 3/28/13
Task No.: 25A2

Work Performed

Well Installation: ~~temp wells~~ NA
Soil Borings: NA
DPT: Groundwater sampling
Well Inventory: NA
Other: ~~ASA~~ scope page 1

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

1440	loaded up rig and cleaned up around 223. put cone over 223. Drove to 224 (BI)
1450	start ~~drilling~~ hand augering
1457	start taking GW parameters @ 224 (8-12)
1504	sample 224 (8-12)
1506	start taking parameters @ 224 (~~8~~ 16-20)
1512	sample 224 (16-20)
1516	start taking parameters @ 224 (21-25)
1522	sample 224 (21-25)
1526	start taking GW parameters @ 224 (26-30)
1532	sample 224 (26-30)
1547	clean up around 224; place cone over it
1555	start grouting BH
1615	Finish grouting BH (#219)
1620	start grouting AD (#218)
1630	Finish grouting AD

Plans/Future Activities

3/28/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: FR1681 3
Project No.: 0HHE
Contractors: see page 1

Date: 3/28/13
Task No.: 25.02

Work Performed

Well Installation:	~~temp wells~~ NA	Sampling Soil:	NA
Soil Borings:	NA	Sampling SW/Sediment:	NA
DPT:	groundwater sampling	Sampling Monitor Wells:	NA
Well Inventory:	NA	Sampling Hazardous Waste:	NA
Other:	see page 1	Sampling Drums:	NA

Observations/Issues of Concern

1635 Start grouting F (*220)
1650 ~~Start~~ Finish grouting F
1700 Arrive @ IDW station start taking pH reading. pH = 6.99
1710 Take sample of IDW drum 193862
1712 hand off samples to lab
1715 go to pick up spill palett
1730 ~~titrate~~ could not access gate (locked) to pick up sill pallete. ~~Leave~~ Call Lauren Drill crew & Claire Osborn leave site
1750 Pick up key from Titusville office
1815 Arrive @ home depote to purchase stakes & spray paint
1825 arrive @ hotel
1840 Calibrate equipment (CCV)
1855 Finish continuous calibration verification/calibration

Plans/Future Activities

3/28/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Date: 3/29/13
Task No.: 25-07
Contractors: EDS (JR & Shawn). NewAge/Landmark Inc (Celeste Wheeler)

Work Performed

Well Installation: ~~temp. wells~~ NA
Soil Borings: NA
DPT: Groundwater sampling
Well Inventory: NA
Other: Geoprobe 6620DT, peristaltic pump, tubing provided by EDS, 451 (556 hrs/10C100199) rented from Pine

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

630	Leave hotel
700	Arrive onsite, pick up spill paletti w/ drill crew.
	Take spill paletti to IDW location. Set up
800	Safety briefing w/ drill crew
810	Start drilling @ 224 (BI) → interval 31-35 ft bgs
820	Start taking GW parameters
826	Sample 224 (31-35)
832	start taking GW parameters @ 224 - (36-40)
840	sample 224 (36-40)
847	start taking GW parameters @ 224 (41-45)
855	sample 224 (41-45)
905	start taking GW parameters @ 224 (56-60)
911	sample 224 (56-60)
915	Crew starts to clean up 224
930	pass off samples to lab (final samples @ 224)
920	Crew starts to hand auger 225 (J) then drill 225

Plans/Future Activities

3/29/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRC CRTIE
Project No.: FC1081
Contractors: see page 1

Date: 3/29/13
Task No.: 2.3.2

Work Performed

Well Installation: ~~temp well~~ NA
Soil Borings: NA
DPT: groundwater sampling
Well Inventory: NA
Other: see page 1

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

944	start taking GW parameters
950	sample 225 (8-12)
1000	start taking GW parameters & 225-(16-20)
1006	sample 225-(16-20)
1014	start taking GW parameters 225 (21-25)
1020	sample 225 (21-25)
1024	start taking GW parameters @ 225-(26-30)
1030	sample 225 (26-30)
1034	start taking SW parameters @ 225 (31-35)
1040	sample 225 (31-35)
1044	start taking GW-parameters @ 225 (36-40)
1050	sample 225-(36-40)
1054	start taking GW-parameters @ 225 (41-45)
1100	sample 225 (41-45)
1104	start taking parameters @ 225 (56-60)
1110	sample 225 (56-60)

Plans/Future Activities

3/29/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1661
Contractors: ~~FEDS~~ see page 1

Date: 3/29/13
Task No.: 2SA2

Work Performed

Well Installation: ~~temp wells~~ NA
Soil Borings: NA
DPT: groundwater sampling
Well Inventory: NA
Other: see page 1

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

1130 Crew finisher cleaning up; place cone over 225
1140 start grouting D → 1145 pull off samples to lab
1150 finish grouting D
1202 start grouting G
1216 finish grouting G
1230 Claire starts to mark BK, BL, BM, BO, BP
1233 Crew starts to grout BJ
1248 Crew finishes grouting BJ
1250 Crew starts to grout BI
1300 Claire finishes staking locations; double check locations
1310 Crew finishes & grouting BI
1330 Crew starts to drill 225 (J) - (66-70) → depth interval
1352 Start taking GW parameters C225 (66-70)
1358 Sample 225 (66-70)

Plans/Future Activities

3/29/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR 16681
Contractors: ~~EDS~~ see page 1

Date: 3/29/13
Task No.: 25.A.2

Work Performed

Well Installation: ~~temp wells~~ NA
Soil Borings: NA
DPT: groundwater sampling
Well Inventory: NA
Other: see page 1

Sampling Soil: NA
Sampling SW/Sediment: NA
Sampling Monitor Wells: NA
Sampling Hazardous Waste: NA
Sampling Drums: NA

Observations/Issues of Concern

→ lab picks up sample ↗ lab picks up sample

1410 Finish ~~decon~~ cleaning up @225; start to grout 225 (J)
1420 Finish grouting 225
1430 Head to IDW; put on all ~~labels~~ affixed labels on new drums; Crew transfers IDW to drum. Fill out IDW check list
~~1440~~ 1447 Crew + Claire head off site
1500 Claire stops to get lunch. Starts to calibrate in car
1520 Finish CCV
1530 Arrive at Titusville office
1600 Claire leaves office, gets gas, heads back to Tampa
1830 Arrives back in Tampa

Plans/Future Activities

3/29/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: Environmental Drilling Svcs. (EDS)

Date: 04/01/13
Task No.: 2582

Work Performed

Well Installation:
Soil Borings:
DPT: GW DPT sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 Get materials at Titusville office, get badge + mobe to site.
0715 Meet drillers. Need to get strap for pallet + give drillers back. Check woods for accessibility + point them there. Will need mat to cross mud. Prepping to set up on DPT 0226. Calibrate PID + YSI. PID 0/100 ppm isobutylene
0805 Conduct H+S briefing then begin hand augering DPT 0226.
0845 PID reading 0.0 ppm at DPT 0226. Will screen ~~Qual + report~~ QA/QC + approx overages + stop.
1100 Pull off DPT 0226 + move to DPT 0227 (A0 on map). Decon equipment.
1350 Pull off DPT 0227 + move to DPT 0228 (A11 on map). Decon equipment.
1615 Pull off DPT 0228 + move to DPT 0229 (A11 on map). Decon equipment.
1651 Collect CRHE-DPT0229-010.0-20130401 sample + deliver to mobile lab at CCE. Transfer purge water to drums + secure spill pallet. Rig left at DPT 0229 location to resume in morning. Air at 0.0 ppm all day.
1720 Walk woods w/ driller to determine feasible DPT access.
1745 Depart site. Contact L. Puffy to summarize activities.
1800 Calibrate YSI at hotel.

~~Plans~~/Future Activities

Note: PID calibration gas 100 ppm isobutylene
Lot No. LTB213-RR-CM
Exp. Date February 2016

Signature/Date 04/01/13

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHC
Project No.: FR1681
Contractors: EDS

Date: 04/02/13
Task No.: 25 & 2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 Depart for site.
0700 Arrive on site. Locate all points to be cleared today. Calibrate PID + YSI. PID calibrated to 0 ppm ambient air + 100 ppm isobutylene.
0715 Conduct safety briefing.
0725 Begin drilling DPT0229 again.
0800 Utility locator show up - walk locations to be cleared with them.
0820 Resume work at DPT0229. All boring locations (new + adjusted) cleared.
0955 Complete DPT0229, decon equipment + move to DPT0230 (A6 on map).
1200 Air screening has been at 0.0 ppm since work began. Rig blew hydraulic line - temporarily down while it is fixed.
1255 Resume drilling at DPT0230.
1400 Complete DPT0230, decon equipment + mobe to DPT0228 (AN) to begin grouting
1430 Move to DPT0226 (AM)
1505 Complete DPT0226 + move to DPT0227 (AO).
1535 Complete DPT0227 + decon. Move rig to advance DPT0231 (AI)
1754 Collect last GW sample at DPT0231, decon + calibrate YSI.

~~Plans/Future Activities~~

1830 Transfer decon + purge water from day, give last of samples to mobile lab, secure equipment + depart site

04/02/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHF
Project No.: FR1681
Contractors: EDR

Date: 04/03/13
Task No.: 2.5 + 2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW samples
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Arrive on-site. Rig battery being charged + some maintenance being done. Confirm w/ Lauren Petty to mobe into woods first thing due to coming rain. Calibrate YSI + PID. PID calibrated to 0.0 ppm + 100 ppm isobutylene.
0745 Conduct H+S briefing. Mobe equipment to woods.
0830 Begin DPT0232 (BD on map).
1105 Complete DPT0232 + decon. Mobe equipment to DPT0233 (BF) (or map)
1130 Drilling DPT0233. PID reading 0.0 ppm all morning.
1400 Done with DPT0233, decon + move to DPT0234 (BE on map).
1640 Complete DPT0234 + move to DPT0235 (BC on map).
1700 Pull off DPT0235 + leave rig over borehole. Need to decon for tomorrow morning. Conduct continuing calibration verification on YSI. Drillers decon + transfer decon + purge water to drums.
1730 Pull IDW sample from dram #1938864 sink it's at 80% volume. pH 7.45 (CS)
1740 Depart site after transferring samples to on-site lab. PID air screened at 0.0 ppm all day.

Plans/Future Activities

Signature/Date 04/03/13

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: EN

Date: 04/04/13
Task No.: 25.02

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW samples
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 arrive on site, conduct safety briefing + check w/ NASA (LS) duty ofc. re: Phase I + II weather alerts. On Phase I ~~+ II expected at~~ (CS) until 09:00.
0720 Pull rig off (LS) DPT0235 to grout 0232 + 0233 in woods before weather worsens + they become inaccessible in wetlands area. Calibrate PID + conduct continuing calibration verification on YSI.
0800 Done grouting DPT0232 + move to grout DPT0233.
0835 Done grouting DPT0233 + move to DPT0235 to resume drilling.
1050 Complete DPT0235, decon + move to DPT0234 to grout.
1120 Complete DPT0234 grouting, load equipment to mobe back over by railroad tracks to grout DPT0229 + resume drilling ~~there~~ (LS) area.
1220 DPT0229 grouted + set up to drill DPT0236 (AL on map) moved 13' west of original location to be outside RR tracks.
1510 DPT0236 complete so pull rods from borehole. Phase II weather alert so can't work right now. Check radar + call Lauren.
1530 Send drillers home based on extensive storms on radar + drop samples at mobile lab. Air screened at 0.0 ppm all day.

~~Plans/Future Activities~~

1600 Depart site.
1620 Calibrate (CCV) YSI at hotel.

04/04/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR-1691
Contractors: EDS

Date: 04/05/13
Task No.: 25.21

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Arrive on site, conduct safety briefing + prep to grout boreholes along RR tracks.
0755 Calibrate YSI + PID (0 ppm + 100 ppm isobutylene)
0840 Load equipment + move to DPT 0237 (AE on map)
0910 Hand augering DPT0237.
1040 Shut down due to phase II weather alert.
1110 Resume working at DPT0237.
1200 Move from DPT0237 to DPT0238 (BA on map). PID 0.0 ppm all morning.
1410 DPT0238 completed + move to DPT0239 (BB on map).
1610 DPT0239 completed + prep to grout. Conduct continuing calibration.
1730 Complete grouting + mobe truck to decon / IDW area. Transfer all purge + decon water remaining to drum.
1740 Collect IDW193P65 sample at pH 7.55. Clean drums (top + sides) + secure pallets w/ straps. Air screened at 0.0 ppm all day.
1800 Drop samples at lab on site. Driller loading equipment.
1830 Depart site.

Plans/Future Activities

04/05/13
Signature/Date

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Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project: CRHE
Project No.: FR1681.25*2
Contractors: Geosyntec: Claire Osborn
EDS: YR: Mitch Pennington

Date: 5/20/13
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: DPT Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Equipment: Geoprobe 6600DT

Observations/Issues of Concern

700 Arrive at NASA badging office, collect badge
715 Dave Szeimore arrives at badging office; Claire and Dave drive over to CRHE. Dave shows Claire cleared locations.
800 Dave locates (GPS unit) & ~~st~~marks new locations to be sampled; Claire calibrates
830 Claire contacts drillers. They are setting up at decon area
900 Claire meets drillers at decon area; holds tailgate safety meeting
910 Inspects spill pallet. Several (2) spill pallets are located next to Geosyntec spill pallets that do not belong to Geosyntec. spill pallets have point of contact (POC) listed as Amanda Beatty/IHA 867-7176 or Sue Tzareff/IHA 867-3609. ~~One~~ The barcodes on spill pallet covers are

Plans/Future Activities

5/20/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Contractors:

Date: 5/20/13
Task No.:

Work Performed

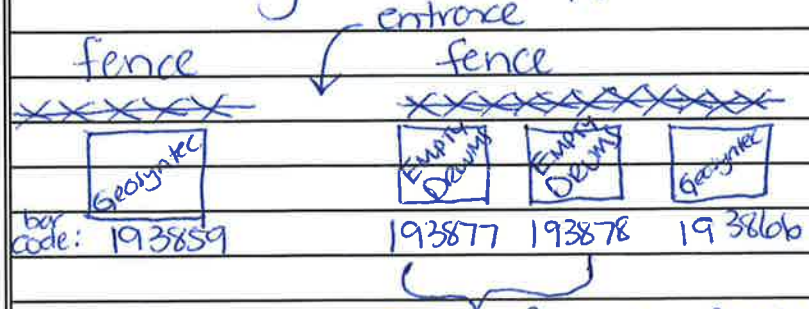
see page 1

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

193877 and 193878. Please see the following diagram for approximate location.



POC: Amanda Beatty or Sue Tzareff

915 mobilize to BL (#240) and hand clear to 5 ft BLS; start drilling (see DPT Geochemical Data form)

1056 collect the final sample at BL, clean area, mobilize to BM (#241)

Plans/Future Activities

5/20/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: _____ Date: 5/20/13

Project No.: _____ Task No.: _____

Contractors: _____

Work Performed

see page 1

Well Installation: _____ Sampling Soil: _____

Soil Borings: _____ Sampling SW/Sediment: _____

DPT: _____ Sampling Monitor Wells: _____

Well Inventory: _____ Sampling Hazardous Waste: _____

Other: _____ Sampling Drums: _____

Observations/Issues of Concern

1115 hand clear location to 5ft BLS, start drilling (see Geochemical Data Form)
1200 take lunch break
1230 start drilling again
1346 collect final sample, clean area, drillers decon equipment
1415 mobilize to BG (#242), hand clear location, start drilling
1630 take final sample, clean area, drillers clean decon area
1700 Claire and drillers leave site

Plans/Future Activities

5/20/13

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CCHE
Project No.: FR11681.25*2
Date: 5/21/13
Task No.:
Contractors: Geosyntec: Claire Osborn
EDS: JL, Mitch Pennington

Work Performed

Well Installation:
Soil Borings:
DPT: DPT sampling
Well Inventory:
Other: Equipment: 6620DT Geoprobe

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

700 Claire and drillers arrive on site; drillers set up decon area & keep it covered as it looks like rain; Claire prepares tailgate
715 hold safety tailgate meeting (see tailgate form)
730 mobilize to AF (#243) located ~30' across two railroad tracks, have to make a bridge to cross tracks with rig; Claire calibrates (see calibration form)
750 hand clear location (5 ft BLS); start drilling
956 collect final sample, clean area, mobilize to BU (#244), hand clear
1015 Phase 2 issued
1200 Phase 2 called off; start drilling (see DPT Geochemical Data Form)
1336 collect final sample, clean area, crew decons equipment
1430 mobilize to BQ (#248), ~~hand clear (5 ft BLS)~~ start to drill

Plans/Future Activities

5/21/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRITE
Project No.:
Contractors:

Date: 5/21/13
Task No.:

Work Performed

Well Installation: see page 1
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1435 collect sample @ 70 ft BLS @ BQ(#242); clean area mobilize to BS-245; hand clear, start to Drill (see DPT Geochemical Data Form)
1526 collect sample @ 25 ft BLS
1530 phase 2 issued; Claire and drillers leave site as radar shows large rain bans in area

Plans/Future Activities

5/21/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Date: 5/22/13
Task No.:
Contractors: Geosyntec: Claire Osborn
EDS: J.R. & Mitch Pennington

Work Performed

Well Installation:
Soil Borings:
DPT: DPT sampling
Well Inventory:
Other: Equipment: Geoprobe 6620DT

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

700 Arrive Onsite - Claire & drillers; start safety briefing
715 Finish safety briefing; drillers set up decon pit. Claire checks in at office to notify manager of working adjacent to traces
720 mobilize to BS-245. start drilling. see geochem. data form; Claire calibrates (see calibration form)
834 collect final sample. Clean up & load rig. mobilize to 228.0. hand clear location. see geochem data form
910 collect sample. load rig & mobilize to BO-246.0
920 hand clear location. start drilling BO. see geochem data form
1050 collect last sample. ~~mob~~ clean up, load rig, mobilize to CC-247.0. hand clear CC.
~~1110~~ 1100 start drilling CC. see geochemical data sheet
1226 collect final sample, load rig, clean area, mobilize to BK-248.0. Phase 2 issued. Claire & drillers get into work vehicles.

Plans/Future Activities

5/22/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Date: 5/22/13
Task No.:
Contractors: Geosyntec: Claire Osborn
EDS: JR, Mitch Pennington

Work Performed

see page 1

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Phase 2 cleared. hand clear BX-248.0. start drilling
1530 Collect final sample. clean area loading
1540 start to surface grout BL-240
1555 Finish grouting BL-240
1605 Start to grout BM-241
1620 Finish grouting BM-241
1630 Discard purge water/decon water into drum; clean up decon area
1650 Leave site (Claire and drillers)

Plans/Future Activities

5/22/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project: CRHE
Project No.: FR1681.25*2
Contractors: Geosyntec: Claire Osborn
EDS: YR: Mitch Pennington

Date: 5/20/13
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: DPT Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Equipment: Geoprobe 6600DT

Observations/Issues of Concern

700 Arrive at NASA badging office, collect badge
715 Dave Szeimore arrives at badging office; Claire and Dave drive over to CRHE. Dave shows Claire cleared locations.
800 Dave locates (GPS unit) & ~~st~~marks new locations to be sampled; Claire calibrates
830 Claire contacts drillers. They are setting up at decon area
900 Claire meets drillers at decon area; holds tailgate safety meeting
910 Inspects spill pallet. Several (2) spill pallets are located next to Geosyntec spill pallets that do not belong to Geosyntec. spill pallets have point of contact (POC) listed as Amanda Beatty/IHA 867-7176 or Sue Tzareff/IHA 867-3609. ~~One~~ The barcodes on spill pallet covers are

Plans/Future Activities

5/20/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Contractors:

Date: 5/20/13
Task No.:

Work Performed

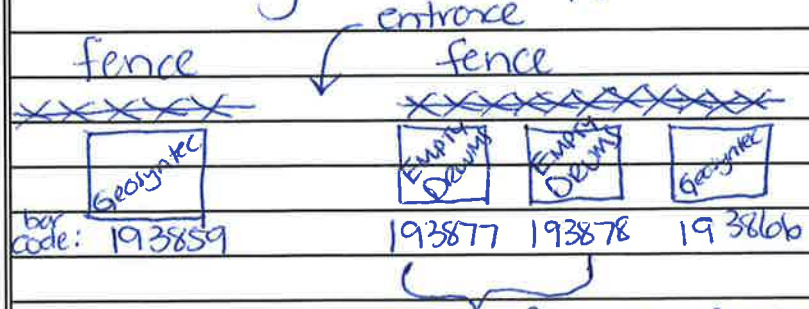
see page 1

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

193877 and 193878. Please see the following diagram for approximate location.



POC: Amanda Beatty or Sue Tzareff

915 mobilize to BL (#240) and hand clear to 5 ft BLS; start drilling (see DPT Geochemical Data form)

1056 collect the final sample at BL, clean area, mobilize to BM (#241)

Plans/Future Activities

5/20/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: _____ Date: 5/20/13

Project No.: _____ Task No.: _____

Contractors: _____

Work Performed

see page 1

Well Installation: _____ Sampling Soil: _____

Soil Borings: _____ Sampling SW/Sediment: _____

DPT: _____ Sampling Monitor Wells: _____

Well Inventory: _____ Sampling Hazardous Waste: _____

Other: _____ Sampling Drums: _____

Observations/Issues of Concern

1115 hand clear location to 5ft BLS, start drilling (see Geochemical Data Form)
1200 take lunch break
1230 start drilling again
1346 collect final sample, clean area, drillers decon equipment
1415 mobilize to BG (#242), hand clear location, start drilling
1630 take final sample, clean area, drillers clean decon area
1700 Claire and drillers leave site

Plans/Future Activities

5/20/13

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CCHE
Project No.: FR11681.25*2
Date: 5/21/13
Task No.:
Contractors: Geosyntec: Claire Osborn
EDS: JL, Mitch Pennington

Work Performed

Well Installation:
Soil Borings:
DPT: DPT sampling
Well Inventory:
Other: Equipment: 6620DT Geoprobe

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

700 Claire and drillers arrive on site; drillers set up decon area & keep it covered as it looks like rain; Claire prepares tailgate
715 hold safety tailgate meeting (see tailgate form)
730 mobilize to AF (#243) located ~30' across two railroad tracks, have to make a bridge to cross tracks with rig; Claire calibrates (see calibration form)
750 hand clear location (5 ft BLS); start drilling
956 collect final sample, clean area, mobilize to BU (#244), hand clear
1015 Phase 2 issued
1200 Phase 2 called off; start drilling (see DPT Geochemical Data Form)
1336 collect final sample, clean area, crew decons equipment
1430 mobilize to BQ (#248), ~~hand clear (5 ft BLS)~~ start to drill

Plans/Future Activities

5/21/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRITE
Project No.:
Contractors:

Date: 5/21/13
Task No.:

Work Performed

Well Installation: see page 1
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1435 collect sample @ 70 ft BLS @ BQ(#242); clean area mobilize to BS-245; hand clear, start to Drill (see DPT Geochemical Data Form)
1526 collect sample @ 25 ft BLS
1530 phase 2 issued; Claire and drillers leave site as radar shows large rain bans in area

Plans/Future Activities

5/21/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Date: 5/22/13
Task No.:
Contractors: Geosyntec: Claire Osborn
EDS: J.R. & Mitch Pennington

Work Performed

Well Installation:
Soil Borings:
DPT: DPT sampling
Well Inventory:
Other: Equipment: Geoprobe 6620DT

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

700 Arrive Onsite - Claire & drillers; start safety briefing
715 Finish safety briefing; drillers set up decon pit. Claire checks in at office to notify manager of working adjacent to traces
720 mobilize to BS-245. start drilling. see geochem. data form; Claire calibrates (see calibration form)
834 collect final sample. Clean up & load rig. mobilize to 228.0. hand clear location. see geochem data form
910 collect sample. load rig & mobilize to BO-246.0
920 hand clear location. start drilling BO. see geochem data form
1050 collect last sample. ~~mob~~ clean up, load rig, mobilize to CC-247.0. hand clear CC.
~~1110~~ 1100 start drilling CC. see geochemical data sheet
1226 collect final sample, load rig, clean area, mobilize to BK-248.0. Phase 2 issued. Claire & drillers get into work vehicles.

Plans/Future Activities

5/22/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Date: 5/22/13
Task No.:
Contractors: Geosyntec: Claire Osborn
EDS: JR, Mitch Pennington

Work Performed

see page 1

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Phase 2 cleared. hand clear BX-248.0. start drilling
1530 Collect final sample. clean area loading
1540 start to surface grout BL-240
1555 Finish grouting BL-240
1605 Start to grout BM-241
1620 Finish grouting BM-241
1630 Discard purge water/decon water into drum; clean up decon area
1650 Leave site (Claire and drillers)

Plans/Future Activities

5/22/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: FE CHHE
Project No.: FR1681.25*2
Contractors: Geosyntec: Claire Osborn
EDS: JR, Miten Pennington

Date: 5/23/13
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: DPT sampling
Well Inventory:
Other: Equipment: Geoprobe 6620DT

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Arrive on site.; drillers prep decon area, leave covered in case of rain
0710 have safety briefing
0720 mobilize to 226. start to hand clear; drill. Claire mark new locations. Claire calibrates (see calibration form)
0730 Locators from NASA arrive; due to utility issues, have to step out from original location
0750 226.0 starts to purge (see DPT Geochemical Data Form)
0800 Collect sample @ 226, clean area, mobilize to 244; start to drill
0840 Collect sample @ 70 ft BLS; clean area, mobilize to 231; hand clear, start to drill (see DPT Geochemical Data Form)
0910 Collect sample at 50 ft BLS, clean area; mobilize to 230; hand clear, start to drill (see DPT Geochemical Data Form)
1002 Collect sample @ 50 ft BLS. Clean area; mobilize to 249, hand clear, start to drill
1204 Collect final sample, clean area; drillers decon; break for lunch

Plans/Future Activities

5/23/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.:
Contractors:

Date: 5/23/13
Task No.:

Work Performed

see page 1

Well Installation:
Soil Borings:
DPT: DPT sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1245 mobilize to 247 start to drill
1318 collect sample @ 70 ft BLS; clean area; mobilize to I (#250), hand clear; start to drill (see DPT Geochemical Data Form)
1512 Collect final sample; clean area
1515 Drillers decon equipment
~~1730 Claire and drillers leave site~~
1535 mobilize to CA (#251); hand clear; start to drill
1704 collect final sample, clean area
1730 Claire and drillers leave area

Plans/Future Activities

5/23/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CR HE
Project No.:
Contractors: Geosyntec: Claire Osborn
EDS: JR, Mitch Pennington

Date: 5/24/13
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other: DPT sampling

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Equipment: Geoprobe 6620 DT

Observations/Issues of Concern

700	Claire arrived onsite
705	Drillers arrive onsite; hold tailgate safety meeting; mobilize to DN-252. break up gravel to hand clear to 5 ft BLS; claire calibrates equipment
730	start drilling DN-252; refer to DPT Geochemical data form
912	collect final sample @ DN-252. clean up area; load rig
930	mobilize to 230
940	start pressure grouting 230
1000/1015	Finish pressure grouting 230; decon; start pressure grouting 231
1050	start pressure grouting 228
1040	Finish pressure grouting 231; surface grout 243(AF) & 244(BU)
1115	Finish pressure grouting 228; start pressure grouting 226
1140	Finish pressure grouting 226
1145	Surface grout ~~245~~ 242 (#245-BS) & 242(BQ)
1205	Start pressure grouting 247 (CC)
1230	Finish pressure grouting 247 (CC)

Plans/Future Activities

5/24/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.:
Contractors:

Date:
Task No.:

Work Performed

see page 1

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1250 surface grout 249(BN), 248(BK), & 246(BO)
1325 surface grout 1(250) & BN(252).
1345 double check grouted wells to make sure grout hasn't settled below surface elevation. Clean decon area; complete IDW checklist
1415 Drillers and Claire leave site
1620 Claire arrives in Tampa; completes CCV

Plans/Future Activities

5/24/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Contractors: —

Date: 5/31/13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other: Utility locate

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 CT Arrives on site for Utility locate. Meet Rachel Donahue to program coordinates into GPS and mark locations.
0730 GPS indicating that locations are ~200 miles off. Definite problem with GPS. Call Jan Barfus / no answer at TVL office.
0800 Call TVL office. Leave message for Jan or Melissa to call for trouble shooting.
0810 Melissa calls. Says to reset units on GPS from ft. to meters. Guides us through.
0830 Locator Jeff on site. Agrees to return around 1000.
0830 Jan calls. Need to reprogram all coordinates that were programmed before units were changed. Make change, unit now locating Reposed locations accurately
0950 Begin marking locations.
1030 (CT) Call Jill Johnson to discuss issues with DG, CE,

Plans/Future Activities (CT)

DPT 0236. DG is in location that has already been drilled (DPT 0195). ~~(CT)~~ CE is due N of DF according to GPS, but looks W according to map. DPT 0236 (already drilled location) is between rails according to GPS. No evidence of drilling here. Believe DPT 0236 was moved and never changed in

Crystal Jones 5/31/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No. FR1681
Contractors: —

Date: 5/31/13
Task No.: 25x2

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other: Utility locate

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

GPS. JJ says to move CE 5' W, She will look into other issues. (CT)

1000 Ask employees in office near Rail Station if location was drilled between rails. They do not believe so. Rachel calls Christel Schultz to ask about location of DPT0236. She says location was relocated W of rails. Rachel & I locate drilling location (grout presence). ~~N(a)~~ Re-GPS location.

1030 Discuss DPT0195 and DG with JJ. DPT0195 in same location as DG. JJ says to have locators approve location where DPT195 appears to be according to map. Do not drill until receiving her approval.
- locations DK, DM re-GPS'd in file named June3-CRHE. DPT 0236 also saved in this file. CE coordinates also changed in file.
- CT contacts locator Jeff. Plan to meet at 1215.

Plans/Future Activities (CT)

1200 Locators Jeff and Ryan on site. All locations approved. DA, DM both moved <3'.

* - Need to GPS locations after they are drilled each day in order to confirm actual location.

Signature/Date 5/31/13

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Contractors: Environmental Drilling Services (EDS) Chris/Keith
KB Labs - Brad

Date: 6/3/13
Task No.: 25.2

Work Performed

Well Installation:
Soil Borings:
DPT: 0253(DJ), 0229, 0236, 0254(BT),
Well Inventory: 0255(CD)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Crystal Towns (CT) on site. Get vials from KB Labs.
0730 Check in with railroad maintenance facility office. OK to work on W side of tracks near woods.
07 Calibrate YSI
0800 EDS on site/unload DPT rig / CT talks to Railroad maintenance facility manager about driving support truck between tracks. Says ok, not a problem. Tailgate Safety.*
0815 EDS sets up decon pit / treks rig to location DJ.
0845 Begin DPT0253 at DJ. No 8-12' sample per Jill Johnson (JJ)

* Topics covered in Tailgate Safety Briefing: COCs, Weather Warnings (forecast calling for thundershowers - will notify through weather pager), Utility markings (no utilities found on W side of railroad tracks), hydration

1050 DPT0253 Complete. Trek rig back down side of railroad tracks/Drillers decon.
1130 Begin DPT0229 - only collecting 46-50' sample per JJ

Plans/Future Activities

1155 DPT 0229 Complete.
1207 Begin DPT0236 - only collecting 46-50' sample per JJ
1225 DPT0229 complete. Break for lunch.
1255 Begin DPT0254 at BT / KB Labs picks up samples
1330 Drillers decon
1545 DPT 0254 complete

Crystal Towns 6/3/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF
Project No.: FR1681
Contractors: Environmental Drilling Services Chris, Keith
KB Labs - Brad

Date: 6/3/13
Task No.: 23.2

Work Performed

Well Installation:
Soil Borings:
DPT: 0253(DJ), 0229, 0236, 0254(BT),
Well Inventory: 0255(CD)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1550 Begin DPT 0255 at CD
1630 Drillers decon.
1730 Finished drilling for day. / Unable to pick up spill pallet due to location being closed for day. Place drum on another pallet on site with empty spot. Drillers to pick up pallet tomorrow at 0700. Drum is labeled and bar coded.
- Decon pit maintenance performed. / CT GPS's all locations.
1750 EDS/CT depart site. CT drops last sample off for KB Labs.
1805 Inform JJ of pallet. Will have pallet onsite first thing tomorrow morning.

Plans/Future Activities

Signature/Date 6/3/13

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project: CRHE
Project No.: FR1601
Date: 6-4-13
Task No.: 25x2
Contractors: Environmental Drilling Services (EDS) - Chris Keith
KB Labs (Glenn)

Work Performed

Well Installation:
Soil Borings:
DPT: 255 (CD) 256 (CH), 257 (CF) (DE), 258 (DF), 259 (DH)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 EDS/Crystal Towns (CT) on site. Conduct Health and Safety Briefing. Disaussed hydration and heat stress. Very high UV level. Drink plenty of water. Take A.C. breaks if too hot.
- EDS picked up pallet. Drum staged and labeled/bar coded. / Pallet labeled/bar coded.

0705 Calibrate/Calibration check on YSI - Drillers prepare rig.

0720 CT checks in with Railroad Maintenance Facility office.

0723 Begin DPT 0255.

0755 DPT 0255 Complete.

0810 Begin DPT 0256 at CH / Drillers do rig maintenance

1000 Drillers decon

1003 KB Labs picks up samples. Discussed sample name errors with Glenn and gave list of changes to be made: ① DPT 0253-010.0 through 058.0 collected 1355 through 1534 Should be DPT 0254. ② Sample collected at 1153 should be DPT 0229-048.0. Sample collected at 1218 Should be DPT 0236-048.0. Glenn to send out updated data.

Plans/Future Activities

Crystal Towns 6/4/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS-Chris, Keith
KB Labs-Glenn

Date: 6-4-13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0255(CD) 0256(CH) 0257(CE)
Well Inventory: 0258(DF), 0259(DH)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1010 Called Michelle Moore at 321-867-3412 to inform of pallet drillers took. Also asked about tie down strap. Drillers said bucket that typically holds tie down straps was empty. No answer- left voicemail detailing above topics. (email: michelle.moore@nasa.gov)
-Received Michelle's contact info from Emily Lawson.
1105 DPT0256 Complete
1110 Begin DPT0257 at CE.
1220 Break for lunch
1250 Resume DPT0256/0251
1330 Complete DPT0257/0251 / Begin DPT0258 at DF.
1335 Michelle Moore returns call about tie down strap. She will drop off at 1600.
1400 Saw lightning from CE in SW direction. Stopped work. Rain started 2-3 min later. Very hard. Strong wind advisory also issued by NASA until 1430.

Plans/Future Activities

1408 Phase II
1510 Phase II ended / KB Labs picked up samples.
1535 Drillers de con
1640 DPT0258 complete
1645 Begin DPT0259

Glynis Kane 6/4/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS, Chris, Keith
KB Labs, Glenn

Date: 6-4-13
Task No.: 25x2

Work Performed

Well Installation:
Soil Borings:
DPT: 255(CD) 256 (CH), 257(CE), 258(DF),
Well Inventory: 259 (DH)
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1705 Began purging 36-40' interval and EDS's pump motor burned out. No parameters or sample collected. Will have a new pump by tomorrow (6/5/13) morning.
1715 Drillers perform decon pit maintenance/CT GPS's locations.
1730 EDS/CT depart site. CT drops samples at KB Labs.
1755 CT calibrates YSI

Plans/Future Activities

Signature/Date 6/4/13

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 3

Project:	CRHE	Date:	6-5-13
Project No.:	FR1681	Task No.:	25*2
Contractors:	Environmental Drilling Services (EDS) Chris-Keith KB Labs (Glenn)		

Work Performed

Well Installation:		Sampling Soil:	
Soil Borings:		Sampling SW/Sediment:	
DPT:	0259 (DH), 0260 (BV)	Sampling Monitor Wells:	
Well Inventory:		Sampling Hazardous Waste:	
Other:		Sampling Drums:	

Observations/Issues of Concern

0645 CT/EDS on site
0700 Health and Safety briefing - traffic safety (vests in parking lot, clear road and cones surrounding rig), Weather warnings, focus and alertness, slips, trips, and falls on wet ground. Utilities
0710 Begin DPT0259 (immediately sample 36-40' interval)
0804 Complete DPT0259
0816 Begin DPT0260 at BV
0828 Called locator Ryan Osterly about clearing locations 25' and 50' S of BJ. He says the locations are clear due to no utilities being located W of railroad tracks. Asked if he needed to sign the dig permit - he says No because they already approved that entire area.
0830 KB Labs picks up samples.
0900 Sensor burned out on Geoprobe. Unable to pull rods.

Plans/Future Activities (CT)

Chris calls Geoprobe for troubleshooting.
0945 Chris relays that sensor which allows probe to pull rods on 'fast' speed has gone out. We are still able to pull rods at 'slow' speed but sampling will be significantly slowed down. CT asks him to call EDS and get another probe on site.

Cyrtl Jones 6/5/13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS Chris Keith
KB Labs, Glenn

Date: 6-5-13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 0259 (DH), 0260 (BV)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

Chris calls EDS. JR able to mobe another probe to site later today. Current probe can (JJ) pull 10-15 samples per day.

0947 Call Lauren Petty (Jill Johnson out of office in AM) and inform of problem. She will call JT and get back to me.

1020 Call Lauren Petty. Says pack probe and supplies after finishing current location. Will reschedule. Heavy rain expected tomorrow and probe issues mean we will not reach sampling goal.

1049 Collect last sample from DPT0260. KB Labs picks up all remaining samples.

1120 CT collects IDW195117 sample/Drillers dumped all decon water/purge water before sample was collected. Note that drum appears slightly less than 80% full (65-70%). New drum has already been started by drillers.

See p.3

Plans/Future Activities

— CT checks YSI — Calibration

1125 Drillers grout/top off all remaining open boreholes. CT checks in with railroad maintenance facility office for clearance to cross tracks.

1145 Glenn from KB Labs calls. Has some waste water he needs to dispose of/Drillers load probe/supplies onto trailer.

1155 Glenn on site. Add lab waste water to drum 195117

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS (Chris, Keith)
KB Labs (Glenn)

Date: 6-5-13
Task No.: 25*2

Work Performed

Well Installation:
Soil Borings:
DPT: 259(DH), 260(BV)
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

and collect new IDW Sample (1155). Glenn performs IDW QC Checklist audit, collects sample.
1210 EDS departs site.
1215 CT ~~departs site~~ @ checks in with manager at CRHE building. ASK him to look at borehole filled outside of building in parking lot (BV). He asks that drillers make it perfectly level due to safety hazard. CT calls drillers to return to site and level grout on asphalt surrounding borehole.
1230 Drillers on site to level borehole.
1235 Took picture of finished borehole with level grout.
1238 ~~Drillers~~ CT depart site.
1300 CT drops key and weather pager at TVL office
1500 CT departs TVL for Navarre FL

Plans/Future Activities

CT
1100 Locator Ryan Osterly on site to sign dig permit and approve locations S of DT. CT walks over to location, Ryan approves all locations W of railroad tracks.

Signature/Date 6/5/13

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CHRE
Project No.: FR11681
Contractors: None

Date: 7.11.13
Task No.: 25*1

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other: Water levels

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells: MW0040
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

800: arrive @ office + begin calibrating YSI + turbidity meter. (see form) load truck + print forms.
930 - leave office for KSC.
1000 - arrive @ MW0040. very hard to get TUBing to go down well... tubing keeps getting ~~tubing~~ stuck.
1020 - finally get tubing to bottom of well + begin purging. collect sample @ 1050
1100 - go drop off sample @ CCF + dispose of water in drum 195118.
1145 - begin collecting water levels. cannot locate MW0015.
245 - lunch
345 - continue collecting water levels. cannot locate MW0033 (in woods) or MW0026.
1500 - go pick up drums for office @ POL from EDS, Call Jill + left a message that departed site.

~~Plans/Future Activities~~

1630 - Unload truck + end of day

7-11-13
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CAHE
Project No.: FR-1681
Contractors: NA

Date: 05/27/14
Task No.: 31+2 (WR)

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other: Utility locate + DPT point GPR locate

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Arrive on site. Locate points on ground to utility check w/ KSC locator Jeff. Use GPR to verify w fen.
0800 Conduct utility locate w/ Jeff.
0915 Complete locate + leave base to get more flags/stakes for marking DPT locations in woods.
1000 Return to site + mark T-Z + AA-AH points in woods when GPR malfunctions + refuses to start on w/ 2/3 battery power remaining. Reset + troubleshoot w/ Tom Barfus on phone but it keeps blanking out screen.
1300 Depart base to drop GPR at Tville office for troubleshooting.
1400 Done for day. Dig permit processed + will be ready for locator signature on site AM tomorrow.

CS

Plans/Future Activities

Note: at least two points (BK+BI) need moved ~2'. Utilities "cleared" circle on all A1, A2, B1, B2, C1+C2 locations for vertical drilling only. Verifies clearance to ~7' below surface but utility markers/locators DO NOT clear angled or directional drilling.

Chad Saltsgiver 05/27/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT Page of

Project: CRHE
Project No.: FR1681
Contractors: EDS
Date: 6/13/14
Task No.: 31.2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 - Arrive on site, begin YSI calibration
0703 - Begin low flow purging DPT0311-048.0'
0711 - Sample DPT0311-048.0'
0732 - Collect final sample, DPT0311-058.0' Mob to DPT0312 CN/DPT0312
0811 - Collect initial sample, DPT0312-033.0'
0931 - Collect final sample, DPT0312-058.0'. Mob to CN/DPT0313 and then to decon area to dispose of IDW & decon screens
1006 - Collect sample CRHE-IDW197035
1022 - Called Crystal Towns to discuss work rest of day. Drillers will grout open boreholes now. Call Jill (904-591-4076) to discuss rest of day (left message). Will tremie grout BW/DPT0309, CL-DPT0311
1045 - Start grouting locations: AM (308) BX (310) CM (312) surface + BW (309) CL (311) tremie
1145 Phase II called as soon as grouting is completed
1545 Phase II ends. Mob back to CN/DPT0313.

Plans/Future Activities

1600 Drilling starts at CN/DPT0313. Waiting on confirmation of final depth from Jill Johnson
1614 Collect IDS initial sample of DPT0313-033.0'
1705 Collect sample DPT0313-048.0' and this is the last sample for the week. Surface grouting CN/DPT0313 and demobing
1750 IDW secure for weekend.
1800 off site

6/13/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CBITE
Project No.: FR1661
Contractors: EDS

Date: 6/12/14
Task No.: 3102

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0635 - Arrive on site
0640 - Begin calibration of YSI
0650 - EDS begins to demob from AM/0308. Will move to next location, BW/0309.
0700 - EDS begins to grout locations AD (324) & AE (301) (tremie); AF (303), AG (304), AJ (305), AK (306), AL (307) (surface)

0845 - Collect initial sample DPT0309-033.0'.
0918 - Collect sample DPT0309-043.0'. Pull rods & mob to decon area.
1012 - Collect sample DPT0309-048.0'.
1031 - Collect final sample, DPT0309-058.0'. Mob to BX/0310.
1108 - Collect first sample, DPT0310-033.0'. Ben Coppenger arrives on site
1225 - Collect final sample, DPT0310-058.0'. Mob to CL/0311. Break for lunch and to decon rods so that we have 10 clean screens.
1340 - Return from dropping of ~~Rob~~ Mob bringing paperwork and begin to drill at CL/0311
1401 - Collect first sample DPT0311-033.0'
1500 - Phase II called. Stopped right before purging started for DPT0311-048.0'

Plans/Future Activities

Called Crystal to discuss weather. Will shelter in place and see if phase II passes.
1715 - Lightning observed in area while talking to Crystal Towns about other work, calling work for day. Will resume work at DPT0311-048.0' and
1725 Mob purge extra water ~~from~~ in morning.
1525 - Leave site
1750 - Arrive at TVL office to CCV YSI & drop it off.

6/12/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS

Date: 6/11/14
Task No.: 3#2

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

MB

1814 - Collect final location, DPT0208-058.0' Drillers decontaminating & heading home. ~~MOB~~
Move to stake final locations in woods
1845 - Leave site after talking to Cyndi regarding remarks and drillers
1905 - Drop off GPS unit at TVL office for Jane

MB

Plans/Future Activities

6/11/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CBHE
Project No.: FB1681
Contractors: EDS

Date: 6/11/14
Task No.: 3M2 (OLR

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 - Arrive on site, begin YSI calibration
0712 - Calibration complete. EDS setting up and review proposed locations of CG BY + CD. Original location of CD approved. BY located approx 18 ft SE of DPT0268 due to railroad tracks. CG will be shifted slightly east upon confirmation by Crystal Towns due to rail road tracks
0730 - EDS mobs to AK/DPT0306.
0740 - Meet Jeff McDowell for utility locate. All new locations BW, BY - CD approved
0819 - Collect first sample, DPT0306-033.0'.
0853 - Collect final sample, DPT0306-043.0'. MOB to AL/DPT0307.
0922 - Collect initial sample, DPT0307-038.0'.
1032 - Collect sample DPT0307-048.0'. Out of rods, drillers mob to clean area. Call Crystal regarding moving clean area to woods area & discuss w/ drillers. Will leave clean pad at current location.
1130 - Collect final sample, DPT0307-058.0'. Mob to AM/0308
1145 - Break for early lunch, plan to grout locations after
1215 - Phase 2 called.

Plans/Future Activities

1445 - Phase 2 lifted for LC34 area, mob back to AM/0308
1514 - Collect first sample DPT0308-028.0'.
1545 - Collect sample DPT0308-038.0' and then a Phase 2 was called.
1550 - Call Crystal about weather delays and drillers wanting to leave at 1730 regardless
1710 - Phase II lifted. Mob back to DPT0308.
1737 Collect sample DPT0308-043.0'.

6/11/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CBLE
Project No.: FB1681
Contractors: EDS

Date: 6/10/14
Task No.: 31.2 (ULB)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1710 - Collect initial sample DPT0305-038.0'
1726 - Final sample collected, DPT0305-043.0', Pulled rods + drillers closing up for day
1740 - Off site for day. Picking up stakes at Home Depot for tomorrow

Plans/Future Activities

6/10/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FB1681
Contractors: EDS

Date: 6/10/14
Task No.: 3.1.2 (GWLR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0635 - Arrive on site, begin VST calibration
0705 - Calibration complete
0738 - Collect final sample, DPT0300-058.0'. Move to ~~AD/301~~ AE/301 per Crystal Tower
0820 - Collect initial sample, DPT0301-038.0'.
0926 - Collect final sample, DPT0301-058.0'. Move to AD/302.
1003 - Collect initial sample, DPT0302-043.0'. Break from drilling to clean + grout locations
1005 - Start locate for additional DPT locations.
Discuss changing locations at BY, CD, CC w/ Crystal due to railroad tracks
1130 - Talk to Jeff McDowell about utility locate tomorrow. Informed that any location in right of way can not be drilled this week
1135 - Grouting complete: X/296, Y/297, Z/298 (tremie) AB/299, AC/300 (surface)
1155 - Collect final sample, DPT0302-~~038.0~~ 048.0'. Move to AF/0303
1205 - Mob to DPT0303. Beside a blocking access, so location was moved approx. 10 ft to SE. Break for lunch
1315 - Collect initial sample, DPT0303-038.0'.

Plans/Future Activities

1356 - Collect final sample, DPT0303-048.0'. Mob to AG/DPT. Shift location ~3ft east due to root obstructions
1438 - Collect first sample, DPT0304-038.0'.
1557 - Collect final sample, DPT0304-058.0'. Move to AJ/DPT0305. Mob back to decon rods & dispose of IDW
1640 - Collect IDW 197034 sample

6/10/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 2 of

Project: CRHF
Project No.: FB1681
Contractors: EDS

Date: 6/9/14
Task No.: 3152 (ULR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1441 - Sample DPT-0299-~~0.33~~ MB 033.0' collected at location ~~DPT0298/AB~~ DPT0299/AB
1517 - Sample DPT-0299-043.0' collected. Out of screens, moving to clean area.
1555 - Resume drilling at AB/DPT0299
1610 - Collect final sample, DPT0299-048.0'. Move to ~~A2~~ MB AC/300
1641 - Collect first sample, DPT0300-038.0'.
1717 - Collect sample, DPT0300-048.0'. Last sample of day. Clean up location and dispose of appropriate IDW
1735 - Depart site for day
1800 - Pick up GPS unit from TVC office
1840 - Start CCV for day

MB

Plans/Future Activities

6/9/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of

Project: FRTGST CRHE (mb)
Project No.: FR1631
Contractors: EDS

Date: 6/9/2014
Task No.: 3142 (RLB)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0655 - Arrive on-site, discuss with drillers about filling holes that have had grout settle in parking lot (A2 & B2) (DPTs 0294 & 0295)
0700 - Crystal informs that X/296 needs a sample taken from 56-60'
0740 - Contact Crystal about Sp. Cond. calibration. YSI keeps calibrating up to 1,515 instead of 1,413. => Error (mb) was caused by calibrating to Sp. Cond. not conductivity. Issue resolved
0745 - EDS begins to drill to 56-10' at X/296
0800 - Collect DPT0296-058.0 (final sample). Pull rods & move to next location Y/DPT0297
0836 - Collect initial DPT0297-033.0' sample
0853 - Collect DPT0297-038.0' & mob to decon area to decon (drilling mb) equipment
0920 - Decon complete; EDS lays asphalt at locations A2/0294 & B2/0295
1003 - Collect DPT0297-043.0' after decon & asphalt laying
1022 - Collect final sample, DPT0297-048.0'. Move to location Z/0298
1114 - Collect initial sample, DPT0298-033.0'
1212 - Collect DPT0298-048.0' and break for lunch

Plans/Future Activities

1255 - Back from lunch. Deposit IDW & then mob back to DPT0298
1336 - Collect final sample, DPT0298-058.0'. Move to AA/~~DPT0299~~ mb
1355 - Collect IDW-145130 sample
~~0205~~ (mb) 1405 - Call Crystal. What looks to be a gopher tortoise hole (x2) located ~5ft east of AA. She contacted Becky and instructed to move to next location, AB, until Beck inspects site. Becky performed eco survey in May

note: Crystal = Crystal Towns
Becky = Becky Bolt.

MLB 6/9/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CBHE
Project No.: FR1681
Contractors: EDS

Date: 06/06/14
Task No.: 31#2 (ULR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

-1535 Call Crystel. East step-out of S=S-1. Relocate it to southwest of current location, within 25 ft of S/268. AA is best shifted to south. AF is best shifted to southwest. Keep shifting minimal for S-1, AA, and AF. Ace supposed to grout B2/294 & A2/295

-1637 Collect DPT0296-048.0 (final sample). Pull rods & break down location

-1530 Leave site.

MB

Plans/Future Activities

6/6/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1691
Contractors: EDR

Date: 06/06/14
Task No.: 3.1.2 (WLR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0655 Arrive on site + calibrate ~~equipment~~ (PS) YSI. Drillers grouting.
0715 Mike Burcham arrives on site. Review SOW with him. Show him lab location at CCF, spill pallets + boring locations in + around woods N of ~~Cont~~ (CS) Contractor's Rd.
0810 Conduct H+S briefing + set up on A2/DPT0295 location.
0820 Attempting to break ground at DPT0295
0928 ~~Hand~~ augering complete + begin drilling.
~~1131 Collect DPT08~~ 0945 Collect initial DPT0295-018.0' sample.
1151 Collect DPT0295-033.0' sample + break for lunch after rods are removed from hole. Anne Chrest + Harry Plaza stop by. Tell her that we are on second angled hole w/slightly slower progress on angled drilling but no problems + all applicable samples collected so far.
1215 Actually depart site for lunch.
1245 On site + resume drilling.
1315 Collect DPT0295-038.0' sample.

Plans/Future Activities

1354 Collect final DPT0295-043.0' sample. Pull rods + break down equipment to mobe back across street into woods.
1420 Moving equipment + rig off site.
1515 Drilling began at X/DPT0296
1530 Collect DPT0296-033.0 sample (initial sample at location)

6/6/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS

Date: 06/05/14
Task No.: 3.1.2 (WLR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1407 Collect ~~Complete~~ initial DPT0294-018.0' sample.
1656 Collect final DPT0294-043.0' sample using 70' of rod at 40° angle.
~~1656 Collect final (S)~~ ~~Calibrate (S)~~ Conduct CCD or YSI while drillers pull rods. ~~Grout (S)~~
1730 Depart site for fuel + water.

Plans/Future Activities

Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDS

Date: 06/05/14
Task No.: 3182 (ULR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums: IDW sample

Observations/Issues of Concern

0700 Arrive on site + calibrate YSI. Drillers picking up another spill pallet.
0730 Drillers arrive + conduct H+S briefing. Then set back up to continue at V/DPT0292 location.
0826 Collect final DPT0292-058.0' sample. Move to W/DPT0293.
0912 Collect initial DPT0293-033.0' sample.
1102 Collect final DPT0293-058.0' sample. Break down rig to move back across street to E+ prep for angled drilling. Talk to Gary Osborn who is currently operating Facilities Mgr. + he ok's location + prepared setup area! He indicates that we should set up cones for our safety in the parking lot but that his guys should have access in/out as needed based on what we discussed.
1213 Collect IDW195129 sample. Move rig to Facilities Mgmt. building along w/truck + materials from spill pallet area.
1255 Attempting to break ground at B2/DPT0294.
1330 Complete hand augering through road base w/help of breaker bar + prep to drill to first depth 20' bls = 31' of rod at 40° angle.

~~Plans/Future Activities~~

Note: a difference in surface elevation is evident between the east + west sides of the road w/ the woods w/ the ditches in the woods. The variation in elevation appear to range between 2-5' based on viewing w/naked eye. This may result in discrepancies in data for various "depths below surface" if grouped or evaluated together.

06/05/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: EDS

Date: 06/04/14
Task No.: 3142 (WR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0650 Arrive on site, conduct H&S briefing calibrate YSI + set up to resume sampling at DPT0289 location.
0728 Collect DPT0289-023.0' sample.
0943 Collect final DPT0289-058.0' sample. Move to T/DPT0290.
~~1204 Coffee~~ 1045 Collect initial DPT0290-033.0' sample.
1204 Collect final DPT0290-058.0' sample. Move to U/DPT0291, but get stuck along the way in mud that was concealed beneath clear cut debris. Use mud mats, wood + truck to work rig out.
1345 Rig is out of mud + set up at DPT/0291.
1404 Collect initial DPT0291-033.0' sample.
1558 Collect final DPT0291-058.0' sample. Move to V/DPT0292.
1647 Collect initial DPT0292-033.0' sample.
1725 Collect DPT0292-043.0' as last sample for day. Drillers break down rig, ~~samp~~ CS decon + empty decon pit. Conduct CCV on YSI.
1750 Depart site for Tville office to get new YSI + send old one back + copy additional forms.

Plans/Future Activities

1850 Depart Tville office.

CS

CS 06/04/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: EDS

Date: 06/03/14
Task No.: 3142 (LLE)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums: IDW sample

Observations/Issues of Concern

0650 Arrive on site, conduct H+S briefing, calibrate YSI + set up on BK/DPT0285. This location is 4' east of proposed due to utilities.
0733 Collect initial DPT0285-033.0' sample. (JS)
0854 Collect final DPT0285-058.0' sample + move to BG/DPT0286.
0932 Collect initial DPT0286-028.0' sample.
1134 Collect final DPT0286-058.0' sample. Move to BH/0287.
1246 Collect initial DPT0287-028.0' sample.
1345 Collect final DPT0287-043.0' sample. Move to BI/DPT0288.
1443 Collect initial DPT0288-028.0' sample.
1607 Collect final DPT0288-043.0' sample. Move to R/DPT0289 on other side of tracks toward woods.
1614 Collect IDW195128 sample.
1659 Collect initial DPT0289-010.0' sample.
1712 Collect DPT0299-018.0' sample as last sample for day. Drillers head to decon equipment. Break down sample area + conduct QCV on YSI.

Plans/Future Activities

1845 Depart site

(JS)

06/03/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: EDS

Date: 06/02/14
Task No.: 3182 (WLP)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums: IDW Sample

Observations/Issues of Concern

0655 Arrive on site, conduct H&S briefing + calibrate YSI.
0730 Collect initial DPT0281-028.0' sample.
0745 Jeff + Rylan arrive for utility locate. Stop DPT temporarily to go with them to additional locations at facilities bldg across road to west, in woods + along woods + storm ditch west of woods.
0832 Resume sampling at DPT0281-038.0'. We are clear to drill points AI, AH, AO, AN + AP on 6/5, 6, 12 or 13 but not any other days based on current launch schedule. Check back with locators between 6/9-11 to verify if that schedule is still good. All other points are unaffected by launch activities + are cleared for utilities with the exception of angled drill points which are only "clear" for vertical drilling.
0909 Collect final DPT0281-048.0' sample. Move to BQ/DPT0282.
0939 Collect initial DPT0282-023.0' sample.
1137 Collect final DPT0282-058.0' sample. Move to BP/DPT0283.
1234 Collect initial DPT0283-028.0' sample.

Plans/Future Activities

1349 Collect final DPT0283-048.0' sample. Move to BJ/DPT0284.
1425 Collect initial DPT0284-028.0' sample.
1558 Collect IDW195127 sample.
1633 Collect final DPT0284-058.0' sample. Conduct CCV on YSI + prep to decon + grout.
1730 Complete grouting DPT0277-0283. Depart site.

06/02/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of

Project: CCHE
Project No.: FR1681
Contractors: EDI

Date: 05/30/14
Task No.: 3 & 2 (LUCE)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums: IDW Sample

Observations/Issues of Concern

0450 Arrive on site, conduct H+S briefing, calibrate YSI + set up on BV/DPT0278.
0729 Collect initial DPT0278-038.0' sample.
0825 Collect final DPT0277-058.0' sample. Move to BT/DPT0278.
0859 Collect initial DPT0278-028.0' sample.
1007 Collect final DPT0278-048.0' sample. Move to BS/DPT0279.
1038 Collect initial DPT0279-028.0' sample.
1157 Collect DPT0279-043.0' sample + decon. Drop samples to lab.
1240 Phase II Lightning shutdown - secure equipment + get in vehicles.
1330 Phase II lifted + set up to push down for final DPT0279 sample.
1346 Collect final DPT0279-048.0' sample. Move to BU/DPT0280.
1422 Collect initial DPT0280-023.0' sample.
1445 Phase II Lightning shutdown. Secure equipment, get in vehicle, drop samples at lab + attempt to contact locators via phone + office.
1520 Phase II terminated + resume drilling DPT0280.
1622 Collect IDW193876 sample.

Plans/Future Activities

1635 Collect final DPT0280-048.0' sample. Decon + conduct CCV on YSI.
1710 Mark additional locations for Monday utility locate (5 spots around S-S1 25'E + S2 25'W), B3 between A2 + B2 + D1 15'N + W of NE Facilities Bldg (KO-1996H) corner + D2 25'W + 15'N of same bldg. corner.
1800 Finish new location markings + depart site.

05/30/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CCHG
Project No.: FR1681
Contractors: EDT

Date: 05/29/14
Task No.: 3+A2 (ALE)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0655 Arrive on site. Conduct H+S briefing. Calibrate YSI.
0715 Begin location 0/DPT0273.
0729 Collect initial DPT0273-038.0' sample.
0828 Collect final DPT0273-058.0' sample. Move across tracks to former 227 location to collect single deep sample.
0906 Collect only sample at DPT0227-048.0'. Move to L/DPT0274.
0944 Collect initial DPT0274-033.0' sample.
1045 Break from sampling to decon sample screens.
1132 Collect final DPT0274-058.0' sample. Mobe to K/DPT0275.
1200 Pick up GPS to finish locating points in + around woods.
1220 Drilling DPT0275.
1239 Collect initial DPT0275-038.0' sample.
1342 Collect final DPT0275-058.0' sample. Move to J/DPT0276.
1415 Collect initial DPT0276-033.0' sample.
1540 Collect final DPT0276-058.0' sample. Drillers prep to decon + grout. C. Schultz to see NASA PM - Anne Christ + review engineering drawings ~~Plans/Future Activities~~ for K6-1996 H&S Bldg. re: angled drilling. Photograph of sketched approximation of line or map (Ex) + summary of conversation w/A. Christ emailed to J. Johnson + C. Towns at Geosyntec.
1730 Drillers depart site. C. Schultz marks remaining locations in + around woods west of site that do not require MOT plan.
1820 Conduct CCV on YSI.
1840 Depart site. DPT0268-0276 + 0227 have been grouted per instruction.

Christ Schultz 05/29/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: EDJ

Date: 05/28/14
Task No.: 3142 (ULR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1745 Collect final DPT0272-058.0' sample.
1755 Conduct ECV on USI. Label drum + spill pallet
1815 Take samples to KB lab at CCF.
1830 Depart site.

Plans/Future Activities

Christ Jolly 05/28/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: No: FR11681
Project No.: CRHE
Contractors: EDS (Environmental Drilling Svcs.)

Date: 05/28/14
Task No.: 31 # 2 (LUR)

Work Performed

Well Installation:
Soil Borings:
DPT: DPT GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0700 Arrive on site + calibrate YSI.
0730 Pick up complete approved permit.
0800 Meet drillers on site, conduct H+S briefing + set up rig at S/DPT0268. Contact Diane Bont (321) 861-4121 whose name is on Bldg. K4-1844D + confirm the facility train cars + tracks are inactive (facility mothballed) so drilling between or near tracks OK.
0830 Hand auger DPT0268.
0901 Collect initial DPT0268-033.0' sample.
1017 Collect final DPT0268-058.0' sample. Move to Q/DPT0269.
1051 Collect initial DPT0269-038.0' sample.
1141 Collect final DPT0269-058.0' sample. Set up to move between tracks to location M.
1200 Break for lunch.
1215 Resume working - pick rocks + hand auger at M/DPT0270.
1256 Collect initial DPT0270-038.0' sample.

~~Plans/Future Activities~~

1305 Build decon pit + decon sample screens.
1335 Resume sampling at DPT0270.
1427 Collect final DPT0270-058.0' sample. Move to N/DPT0271.
1451 Collect initial DPT0271-038.0' sample.
1549 Collect final DPT0271-058.0' sample. Move to P/DPT0272.
1623 Collect initial DPT0272-038.0' sample.

Chris Kelly 05/28/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR11681
Contractors: Bear

Date: 8/18/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

8:00 am - Health & Safety talk - heat stress, bugs
9:19 am - Drillers brought refurbished drums - could not use
9:06 - Begin hand augering AI
AI ~~31-35~~, 36-40, ~~41-45~~, 46-50', 56-60'
Sampled 314 (AI) ~~9:45~~ 9:50 36-40'
Sampled 313 (AI) 41-45' @ 10:16 am
10:50 Sampled 314 (AI) 46-50' ~~@ 10:50~~ no parameters read due to low flow / Sampled 56-60 @ 11:13
Moving to 315 (AO) @ 11:25 36-40', 41-45', 46-50, 56-60'
1:25 AO Complete Moved to AN 316
AN 36-40', 41-45, 46-50, 56-60
3:25 316 (AN) Sampling Complete
317 begin at 3:49 31-35, 36-40, 41-45, 46-50, 56-60
4:40 End of day's sampling

Plans/Future Activities

CSM

Signature/Date 8/18/2014

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR1681
Contractors: Bear

Date: 6/24/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

3:30 Grouting complete along with Asphalt
3:34 Begin to transfer waste into DOT drums.

CM

Plans/Future Activities

Christopher Martin 6/24/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Contractors: Bear

Date: 8/24/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

C.G. on site
6:30 discussed days plan with MOT
7:23 Could get the YSI to Calibrate PH
7:25 Calibrated Conductance 1.36
7:27 started drilling 337 (AX)
8:13 Sampled 337-045
8:38 sampled 337-044
8:31 Sampled 337-056
8:45 10 min break
8:55 begin drilling 338 (BC)
9:06 Sampled 338-028
9:25 Sampled 338-033
9:45 Sampled 338-036
9:55-10:05 Break for heat
10:15 started drilling 339 (BD)
10:24 Sampled 339-028

Plans/Future Activities

10:46 Sampled 339-033
11:07 Sampled 339-038
Started Grouting 11:20
12:13 Drillers have to go get more grout & ashalt
Patch
1:07 Driller back

1:10 begin grouting

Signature/Date 8/24/14

j:\admnshare\rem-form\DAILY

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHF
Project No.: FR1685
Contractors: Bear

Date: 8/23/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1250 MOT began switching lane protection
1235 15 min break because of heat
1250 begin drilling 336 (AW)
1314 336-028 Sampled
1333 336-033 Sampled
1352 336-038 Sampled
1415 336-043 Sampled
1442 336-048 Sampled
1504 336-058 Sampled
1520 30 min break due to heat
1550 started drilling 337 (AW)
1609 337-033 Sampled
1628 337-038 Sampled

Plans/Future Activities

CDM

Christopher Mathe 8/23/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: GRHF
Project No.: FR1681
Contractors: Bear

Date: 8/23/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

6:15 - on site
AR 31-35, 36-40, 41-45, 46-50, 56-60
AQ 31-35, 36-40, 41-45, 46-50, 56-60
AW 26-30, 31-35, 36-40, 41-45, 46-50, 56-60
AX 31-35, 36-40, 41-45, 46-50, 56-60
6:40 MOT begin prepping for days work
6:45 drillers on site
7:40 started drilling 334(AR)
8:01 334-033 Sampled
8:24 334-038 Sampled
8:42 Drillers have to repair equipment - shut down
8:58 repairs Completed
9:17 334-043 Sampled
9:38 334-048 Sampled
10:03 334-058 Sampled
10:20 - 10:30 tooth breaks

Plans/Future Activities

10:35 began drilling 335 (AQ)
10:47 335-033 Sampled
10:09 335-038 Sampled
11:32 335-043 Sampled
11:56 335-048 Sampled
12:20 335-058 Sampled

8/23/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR16081
Contractors: Bear

Date: 8/22/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

11:50 Sampled 332-038
11:58 Cracked barrel - had to replace
12:02 Replaced & drilling
12:24 Sampled 332-043
~~13:15~~ 12:59 Sampled 332-049
13:19 Sampled 332-058
13:50 Began drilling 333 CDB
14:13 Sampled 333-026
14:37 Sampled 333-035
14:54 Sampled 333-043
15:17 Sampled 333-048
15:38 Sampled 333-058
15:56 Begin re-drilling CJ
16:22 Sampled 318-045

Plans/Future Activities

CM

8/22/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1684
Contractors: Bear

Date: 6/22/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

6:30 Arrived on Site
7:00 Drillers on site
7:31 Labed drums & Container - had to transfer Waste
7:45 Driller had to ~~refill off~~ Site get PPE
~~BG~~ Locations DE 31-35, 36-40, 41-45, 46-50, 56-60
CJ 31-35, 36-40, 41-45, 46-50, 56-60
CK 31-35, 36-40, 41-45, 46-50, 56-60
CX 31-35, 36-40, 41-45, 46-50, 56-60
DB 26-30, 36-40, 41-~~45~~, 46-50, 56-60
7:46 Drillers began MOB TO Site
All Movement today will be hendered by terrain & distance
8:40 Begin drilling DE one driller had to go get hearing protection
8:59 331-033 Sampled
9:24 331-038 Sampled

Plans/Future Activities

9:49 tubing Clogged with Sediment
9:56 Sampled 331-043
10:20 Sampled 331-048
10:44 Sampled 331-058
10:46 Drilling 332(CK)
11:30 Sampled 332-033

6/22/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Boa

Date: 8/21/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

2:50 began drilling CC
3:07 Funny noise coming from Hole.
3:15 Sampled 330(CC)-038
3:32 Sampled 330-043
3:55 Sampled 330-048
4:22 Sampled 330-053 no parameters measured due to low flow
4:29 Sampled 330-058
Day Sampling Complete

CM

Plans/Future Activities

Signature/Date 8/21/14

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRITE
Project No.: FR1681
Contractors: Bear

Date: 8/21/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

6:25 arrived on site
6:35 Located Drill sites for the day
6:45 Drillers on site
7:36 begin drilling CB1327
7:58 Sampled 327-038
8:24 Sampled 327-043
8:47 Sampled 327-048
9:16 Sampled 327-053 Low flow - no parameters Measured
9:45 Sampled 327-058
10:00 Began drilling 328-[redacted] (CA)
10:28 Sampled 328-038
10:54 Sampled 328-043 Low flow - no parameters Measured
11:16 Sampled 328-048
11:41 Sampled 328-053
~~After~~ 12:00 pipe tryed 15 min break for heat.
12:37 Began Drilling 329(B2)

Plans/Future Activities

13:04 Sampled 329-038
13:10 Phase 1 lightning
13:26 Sampled 329-043
13:44 Sampled 329-048
14:07 Sampled 329-053
14:29 Sampled 329-058

Christopher Mathews 8/21/14
Signature/Date

j:\admnshare\rem-form\DAILY

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTE
Project No.: FR11681
Contractors: Bear

Date: 8/20/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

10:50 Sampled 323(D) - 048
11:01 Sampled 323(D) - 058
11:15 Waiting for MOT to Clear lane
11:30 Begin drilling E
11:55 Sampled 324(E) - 038
12:20 Sampled 324(E) - 043
12:40 Sampled 324(E) - 048
13:03 Sampled 324(E) - 058
13:10 - 13:20 Shuttle MOT Contractor meeting location
13:30 Begin drilling (4th (325)
13:50 325-038 Sampled
14:12 325-043 Sampled
14:35 325-048 Sampled
14:46 Moved to 15 min break - everyone
Near heat extraction
15:26 326-038 Sampled

Plans/Future Activities

15:44 326-043 Sampled
16:11 Millers broke Barrel of screend unit (cant go deeper in this hole
1614 326-048 Sampled
1641 326-058 Sampled

8/20/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 2

Project: CRHE
Project No.: FR1681
Contractors: Bear

Date: 6/20/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

6:30 On Site: First boring DC 36-40, 41-45, 46-60
Second CY 36-40, 41-45, 46-50
third APG 36-40, 41-45, 46-50, 56-60
4th BD 36-40, 41-45, 46-50, 56-60
ES 36-40, 41-45, 46-50, 56-60
6:43 Drillers on site
BM 36-40, 41-45, 46-50, 56-60
7:19 begin drilling 322(C)
7:59 322-036 Sampled
8:21 322-043 Sampled
8:45 322-048 Sampled
9:06 322-058 Sampled
9:24 begin drilling 323(D)
9:55 Sampled 323-036
10:16 Sampled 323-043

Plans/Future Activities

CM

8/20/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRTF
Project No.: FR1681
Contractors: Beex

Date: 8/12/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

Miss labeld Bore hole FJAS G
321 Sampling Complete 17:16

CM

Plans/Future Activities

8/12/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1058.1
Contractors: Boa

Date: 8/19/14
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

12:21 Sampled 319-043
12:50 Sampled 319-048
13:10 Sampled 319-058
~~13:15~~ Drillers broke for 13:25 for 5 min
13:37 began drilling I-320
13:49 Sampled 320(II)-036
14:08 Sampled 320-043
14:29 Sampled 320-048
14:50 Sampled 320-058 Boring Complete
Moving to 321 (G) 36-40', 41-45', 46-50', 56-60'
1519 Begin drilling 321(G)
1537 trouble getting water to pump
1536 have to tript the pipe to check screened interval
1551 trouble getting rods to clear to screen interval
well not opening again
1600 321-038 Sampled

Plans/Future Activities

CM

8/19/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear

Date: 8/19
Task No.:

Work Performed

Well Installation:
Soil Borings:
DPT: GW Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

7:00 on site
8:25 pulled first sample @ P-317 41-45
8:49 pulled 317 OC18 sample - no parameters collected dox to low Sbu
9:11 sampled 317-858
DE 31-35', 36-40' 41-45', 46'-50', 56-60'
CJ 31-35', 36-40, '41-45, '46-50, 56-60'
10:15 Went to Meet MOT - ~~Brake~~
10:55 truck stuck in ~~transit~~ - having to pull out with the drill rig.
10:10 Loading rig on trailer to move to Contractors load.
H & I = 36-40, 41-45, 46-50, 56-60
11:16 Begin Setup for I & H
11:45 @ 36-40 Rt b/s about to begin purging
11:57 sampled 036-319~~(I)~~(H)

Plans/Future Activities

CM

8/19/2014
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear Drilling

Date: 9/22/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645- Arrive @ badging office to meet Bear crew. Drill crew is inside getting badges
0710- Conduct initial Tailgate Safety meeting and discuss week ahead
0735- Call KSC Utility (Jeff McDowell) confirm that duty office needs to be called prior to drilling when in/near right of ways, but not in other locations. Rules regarding Critical Days apply to some areas as well
0835- Picked up sample vials from KB Labs. Will do one pickup @ end of day. I will keep samples on ice until lab receives
0855- Do walls of brush w/ Bear EB, DF not drillable due to standing water, FE in heavy brush
0910- Drilling starts @ AA/DPT 0340
0925- No productivity @ 31-35 ft BLS. Drillers getting check valve from vehicle south of work area. Valve was not in trucks. Finished depth by pulling GW available for geochem and then pulling as much GW as possible, using for sample & recirculating to collect more

Plans/Future Activities

1136- Complete AA/DPT 0340. Mob to CX/DPT 0341. Drillers mob to IDW area to decon
1140- Contact Lane Drennan, drillers do not have steam pressure washer for decon, just pressure washer. Lane says to have them rent one tomorrow, use regular pressure washer today
1232 Begin drilling at CX/DPT 0341

9/22/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHF
Project No.: FR1681
Contractors: Bear

Date: ~~10/14~~ MB 10/1/14
Task No.: 36 1

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other: Grouting open boreholes

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0730 - Arrive on site to meet Bear & finish grouting locations
0750 - Bear arrives, mob & grout
0840 - Grouting complete
0900 - Bear off site, Finishing IDW QC

Plans/Future Activities

10/1/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: FR1681 - CRHE
Project No.: FR1681
Contractors: Bear

Date: 9/30/14
Task No.: 36*T

Work Performed

Well Installation:
Soil Borings:
DPT:
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1429 - While inserting poly tubing w/ check valves, tubing would not go past certain point & reach the screen interval. It was unable to be removed. Pulled rods from 55 ft BLS & decommissioned portions that had mushroomed
1446 - Collect sample CRHE-IDW-~~19327~~ MB 198327
1500 - Collect Sample ~~ED~~ MB CRHE-IDW 198328
1305 - Drilling restarts @ EC/DPT0357
1545 - Complete EC/DPT0357. Talk w/ Lane. Done @ CRHE w/ drilling activities. Grout open locations & manage IDW. Tremie locations sampled today & EH. Can pour ED & EF. Will go w/ Brian to help w/ grout while Chris manages IDW
1626 - Phase II called while grouting ED. EH grouted via tremie prior to phase II. Weather says phase II should end by 1800 at the latest (as of 1650)
1745 - Contact Zone. Weather getting bad in wooded area, leave before grouting location & rob to decon area to manage IDW when phase II lifted
MB ~~06~~ 1845 - Phase II terminated. Manage IDW
1905 - Leave site

Plans/Future Activities

9/30/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear (Chris & Brian)

Date: 9/30/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0645 - Arrive on site. Bear at decon area already. Begin YSI cal.
0706 - Mob to work area & finish cal there
0710 - Call Duty Officer to inform of drilling, next straight to voice mail. Will call back
0735 - Approx. 6"-8" standing water at drill location EG/DPT0355. Call Lane to discuss. Will pull rods, grout immediately via tremmie & move to EA/DPT0356 which is not located in standing water. Mob to get grout supplies
0815 - Grout supplies back at location. Begin to mob pull rods & grout
0825 - EG/DPT0355 grouted. Mob to EA/DPT0356
0830 - Drilling starts @ EA/DPT0356
1105 - Drilling complete @ EA/DPT0356. Will go check out area around BE while Chris mobs rig out of here to see if it is accessible following heavy rain yesterday
1115 - During visit to BE, Lane contacts me & informs that NASA RPM would like us to finish EG, mob back to EG
1136 - Call Lane, grout from earlier is fluid @ area around EG, and worried it will flow into drilling location. Call Jeff McDowell to see if we can move to a higher location, which is closer to utility (only one marked, line visible). Jeff says there are four utilities in right of way we are drilling in & can be out in in hour to locate.
1150 - Call Lane and tell him about utilities. Decides that we should move to EC/DPT0357. Begin mob ~~to~~ mb to location
1230 - Begin to hand auger. Run into rocky layer ~2ft. Use macro core ~~the~~ mb to move past impermeable layer, hand auger to 5ft BLS

Plans/Future Activities

9/30/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: Bear (Brian Starr & MB, Chris Carmichael)

Date: 4/29/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0650 - Arrive on site. Bear on site already. Calibrate YST while Bear preps to mob to wells

0730 - Begin mob to wells. Will go ahead to see if access road is possible for support vehicle. If not, will leave support vehicle in dry part of creek road, but that will make mobing for Bear more time consuming

0840 - Set up @ EH/DPT0353. Scoped out location EE on way to EH, new location under ~2" standing water. Relayed info to Lane Dorman. Also looked for debris mentioned in email + couldn't find it. Confirmed w/ Lane that we will skip collecting a sample @ 51-55 ft BLS

0945 - Screen broken as rods being pulled, on top portion unthreaded to other rods retrieved. Screen + casing unretrievable

1131 - Complete EH/DPT0353. Mob to finish EF/DPT0343.

1301 - Complete EF/DPT0343. Mob to ED/DPT0354. GPS DPT0353 in process

1315 ~~1305~~ - Begin drilling at ED/DPT0354.

1435 - Brian (Bear) rods while Chris MB ~~goes~~ goes to Bear screens

1606 - Finish ED/DPT0354. Mob to EG/DPT0355

Plans/Future Activities

1610 - Call duty office since EG/DPT0355 is in right of MB ~~west~~ way. OK to drill.

1630 - Drilling begins @ EG/DPT0355

1647 - Collect sample @ EG/DPT0355 from 31-35 ft BLS. Tells to Lane, Weather is moving in. Will leave rods in ground + mob to Bear area to handle IDW

1720 - Finish IDW + Bear pit management, Phase II walked.

1730 - Leave site

4/29/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors: Bear

Date: 9/26/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0650- Arrive on site, same time as Bear
0700 - Call KSC Duty office regarding drilling on/near right of ways. OK to drill
0702 - Begin YSI cal
0750 - Begin drilling at CG/DPT0350. Unable to hand auger to 5 ft BLS, obstruction reached ~ 0.5 ft BLS (appears to be thick rock layer from soil coal). Use DPT rig to push through layer and then hand auger to 5 ftBLS.
0930 - KSC Utility on site. Remarks utilities around BN + approves alternate location to west incase BN cannot be drilled
1050 - Location CG/DPT0350 complete. Mob to BN/DPT0351
1102 - Jill contacts me to get Kevin to call her. Talk to Lane about drillers not work
1115 - Drillers able to set up at original BN location. Unable to hand auger initial 1 ft. Use bit and then hand auger to 5 ft BLS
1155 - Kevin leaves to meet Jeam company @ lodging office to collect NASA approved drums
1340 - Complete BN/DPT0351. Mob to CE/DPT0352 following discussion w/ Lane.
1400 - Drillers unable to hand auger past ~1 ft BLS. Use drill bit to push through depth + then hand augered to 5 ftBLS

Plans/Future Activities

1625 - Complete CE/DPT0352. Call Lane, does not want us to start another location since it would be open over weekend. Mob to manage IDW
1755 - IDW in drums. Sample CRHC-IDW 198326 collected
1800 - off site

9/26/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear, TCPF

Date: 9/25/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1715 - Give GPS unit to Whitney Morrison
1735 - Complete BM/DPT0349. Will surface grout per Lane
1835 - Locations BF, AU, AV, AY, AS, EF, AA, CT, CX (DPT0340-0348) were tremie grouted by other Bear crew and BM was surface grouted
1840 - Leave site

Plans/Future Activities

9/25/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear, Traffic Control Products of Florida (TCPF)

Date: 9/25/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0635- Meet Bear @ office to pick up drums. No drums have been delivered
0700- Arrive on site. Discuss drum situation. Will temporarily store IDW in buckets or temporary drums until approved drums are delivered today or tomorrow. Begin YSI cal while Bear demonstrates rods/puts together drum pit
0800- Talk w/ Lane about removing 51-55' BLS from sampling plan @ AY/0347
0805- Begin to GPS drilled locations in median area while Bear sets up location
0830- Begin drilling activities @ AY/0347
1040- Complete location AY/DPT0347. Mob to BF/DPT0348 on west shoulder & TCPF moves shoulder closure cones
1100- Drilling activities begin @ BF/DPT0348
1335- Location BF/DPT0348 Complete. GPS AY/0347 & BF/0348 & Mob to ET/0349. TCPF is at ET/0349 setting up lane closure
1415- Set up to begin @ ET/0349. Lane Dorman calls, informs that client does not want ET sampled. Will sample BM next. TCPF needs to move lane closure before drilling starts.

Plans/Future Activities

1450- MB ~~MOT~~ TCPF closes lane to work @ BM/0349
1457- Begin to push through asphalt w/ DPT rig @ BM/0349. Will hand auger to 5 ft BLS once through asphalt
1615- Lane informs that locations in the woods (AA, CI, CX) need to be transit granted & the open EF can be prior granted
1715- Bear crew from 393 is going to grant wooded locations per specs

9/25/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Page 1 of 1

Project: CRHE
Project No.: FR1681
Contractors:

Date: 9/24/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630- Arrive @ badging office to meet MOT employee (Rick)
0715- Rick w/ MOT company arrives @ badging office
0730- Call Duty Office about drilling in right of way, Duty Office gives all clear
0740- Rick mobs to set up road way/shoulder closures
0820- Arrive at Kennedy Parkway Drilling location. Rick has set up shoulder closure
0830- DPT rig unloaded. Bear is making trailer back to Decon area
0850- Drilling starts @ AS/DPT0344
1110- Drilling complete @ AS/DPT0344. Mobing to AV/DPT0345. Shoulder cones being removed from current location & moved to central median
1120- AV appears to have not been located by KSC. Called to confirm but no response
1140- Drilling starts @ AV/DPT0345
1230- Phase II announced
1255- Phase II terminated, mob back to site & continue drilling
1325- Call Jeff McDowell & confirm location AU is clear of utilities
1436- Complete AV/DPT0345. Mob to AV/DPT0346

Plans/Future Activities

1505- Begin drilling @ AU/DPT0346
1725- Location AU/DPT0346 complete. MOT begins to breakdown area, Bear does as well. Mob back to Decon area to manage IDW.
Collected samples IDW 197036 & IDW 195315
1815- Leaving site

9/24/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors:

Date: 9/23/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

and will collect sample, and then mob DPT rig back to down area for access tomorrow

~~0640~~ - 1740 - Collect 048.0 @ EF/0343. Pull rods & mob DPT rig back so MOT can start work first thing Wed. AM. Get car stuck during mob. Joe Bartlett gives me NASA paper

1840 - Dispose of IDW

1845 - Hand samples off to KB Labs. Off site for day

Plans/Future Activities

9/23/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear Env.

Date: 9/23/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

0630 - Arrive on site. Begin YSI calibration
0645 - Bear arrives on site w/ power steam cleaner as discussed yesterday
0715 - Dispose of IDW from yesterday while Kevin (Bear) goes to other Bear site for tubing
0800 - Mob back to woods & begin to pull screen on CX/DPT0341 @ 57-60 ft BLS
0812 - Sampling complete @ CX/DPT0341. Mob to CT/DPT0342
0815 - Lane Dorman calls. Reminds me that reverse flow is not mandatory per FL SOP & to use regular flow if it will be faster
0825 - Begin drilling @ CT/DPT0342
0930 - Phase II, Tie mob to Levan area
0940 - Phase II terminated, but back @ Levan area to Levan screens
1005 - Mobilize back to woods following Levan & restart drilling to 46-50 ft BLS @ CT
1101 - CT/DPT0342 Complete. Mob to EF/DPT0343
1245 - Phase II issued. Mob to Levan area to dispose of IDW when it's over
1305 - Phase II over. Dispose of IDW
1320 - Mob back to woods
1330 - Phase II called upon return to site

Plans/Future Activities

1530 - Call MB Lane Dorman and discuss plan for day if Phase II lifted. Finish EF, mob out of woods & try to drill location in rail road area
1605 - Phase II lifted. Return to try and sample EF/343 @ 45-50, 55-60 ft BLS
1640 - End of tubing caught & GW not flowing @ 46-50' BLS. Pull rods, remove tubing & push back to depth
1655 - Phase II called. Sample not yet collected. Talked to Lane Dorman

9/23/14
Signature/Date

Geosyntec consultants

DAILY FIELD REPORT

Project: CRHE
Project No.: FR1681
Contractors: Bear

Date: 9/22/14
Task No.: 36*1

Work Performed

Well Installation:
Soil Borings:
DPT: Groundwater Sampling
Well Inventory:
Other:

Sampling Soil:
Sampling SW/Sediment:
Sampling Monitor Wells:
Sampling Hazardous Waste:
Sampling Drums:

Observations/Issues of Concern

1358 - Lane informs that 51-55 ft BLS should be collected @ CX/DPT0341

1505 - Phase II, stop delay @ CX/DPT0341. Rods @ 60 ft BLS. Talk to Lane, informs that 31-35 ft BLS should be collected @ all locations + 41-45 + 46-50 @ BE + BF, 36-40 + 46-50 @ AY. Also to place IDW in Drum 197036 first during disposal

1600 - Talk to Lane, weather does not appear to be relenting, call it for the day. Will drop off samples w/ KB labs. Meet Bear back here tomorrow between 0630 + 0645. They will pick up + steam cleaner tomorrow

1615 - Samples handed off to lab.

1630 - Off site.

Plans/Future Activities

9/22/14
Signature/Date

CALIBRATION LOGS

Water Quality Meter Calibration Form

Site Name: CRHE Area **Personnel:** Jan Barfus
Location: KSC FL
Date: 6/22/09

Calibration Standards Lot Numbers and Expiration Date					
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
AutoCal	6445/07-24-2009				
pH 7	P89-2360/10-3-09				
pH 10	P89-2502/10-3-09				
~~Cond 12.9~~					
ORP 240	1203/11-2013				

Meter make/Model and SN: Horiba U-22	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. mS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading	4.21	6.95	10.06	225	4.72		—
Post-calibration Reading	4.00	7.00	10.00	—	4.49		—

Meter make/Model and SN:	NTU 1.0	NTU 10.0	NTU	NTU	Comments
Pre-calibration Reading	0.80	9.7			
Post-calibration Reading	1.00	10.0			

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Jan Barfus 6/22/09
Signature/Date

Water Quality Meter
Calibration Form

Site Name: NASA CRHE
Location: KSC, FL
Date: 6/23/09

Calibration Standards Lot Numbers and Expiration Date			
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH 7.0	P892360 / 10-3-09		
pH 10.0	P892502 / 10-3-09		
pH 4.0	P887599 / 10-3-09		
Conductivity	6796 / Exp 1-15-10		
ORP	1203 / 11-2013		

Meter make/Model and SN: YSI 556 MPS SN-05D237346	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP (mV) @ 22°C	Cond. (1413) uS/cm	DO (Zero) mg/L @ 25.0 mg/L → 22.33	DO (mg/L) / Temp.
Pre-calibration Reading	4.02	6.98	10.09	237.8	1441	95.7	
Post-calibration Reading	4.00	7.00	10.00	231.5	1413	99.2%	8.51 mg/L

Meter make/Model and SN: Lamotte 2020 SN 2622-1632	10.0 NTU	1.0 NTU	NTU	NTU	Comments
Pre-calibration Reading	10.0	1.0			
Post-calibration Reading	—	—			

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP (mV)	Cond. (_____)	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

6/23/09
Personnel Signature/Date

Water Quality Meter
Calibration Form

Site Name: NASA CHRE
Location: KSC, FL
Date: 6/24/09

Calibration Standards Lot Numbers and Expiration Date			
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH 7.0	P892360 / 10-3-09		
pH 10.0	P892502 / 10-3-09		
pH 4.0	6445 / 7-24-09		
CONDUCT. @ 4.49	"		
ORP	1203 / 11-2013		

Meter make/Model and SN: YSI 556 MPS SN-05D23734	*pH 4 (standard units)*	*pH 7 (standard units)*	*pH 10 (standard units)*	*ORP (mV) @ 24°C*	*Cond. (4.49 ~5k)*	*DO (Zero) mg/L 755.8 mmHg*	*DO (mg/L) / Temp.* → 23.80°C
Pre-calibration Reading	4.20	7.05	9.97	226.8	4.45	104.4	
Post-calibration Reading	4.03	7.00	10.00	232.0	4.49	99.4	8.42 mS/C

Meter make/Model and SN: LaMotte 2020 JN2622-1602	*10.0 NTU*	*1.0 NTU*	*NTU*	*NTU*	*Comments*
Pre-calibration Reading	10.0	0.95 ~~1.0~~			
Post-calibration Reading	—	NA ~~0.95~~			

Meter make/Model and SN:	*pH 4 (standard units)*	*pH 7 (standard units)*	*pH 10 (standard units)*	*ORP (mV)*	*Cond. (_____)*	*DO (Zero) mg/L*	*DO (mg/L) / Temp.*
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	*NTU*	*NTU*	*NTU*	*NTU*	*Comments*
Pre-calibration Reading					
Post-calibration Reading					

Personnel Signature/Date

Water Quality Meter
Calibration Form

Site Name: NASA CHRE
Location: KSC, FL
Date: 6/25/09

Calibration Standards Lot Numbers and Expiration Date			
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH 7.0	P89 2360 / 10-3-09		
pH 10.0	P89 2502 / 10-3-09		
pH 4.0	L445 / 7-29-09		
Conduct.	@ 4.49 mS/cm "		
ORP	C203 / 11-2013		

SN 05023733 AK

Meter make/Model and SN: YSI 556 MPS	*pH 4 (standard units)*	*pH 7 (standard units)*	*pH 10 (standard units)*	*ORP (mV)* @~23°C	*Cond. (4.49) mS/cm*	*DO (Zero) mg/L* 0% @ 758	*DO (mg/L) / Temp.* Sensor: 22.7°C
Pre-calibration Reading	4.19	6.92	10.04	4.35	231.4	88.7	
Post-calibration Reading	4.03	7.00	10.00	4.49	229.6	99.8 = 8.60 mg/L	

SN 2622-1602

Meter make/Model and SN: LaMotte 2020	*10.0 NTU*	*1.0 NTU*	*NTU*	*NTU*	*Comments*
Pre-calibration Reading	10.0	1.0			
Post-calibration Reading	—	—			

Meter make/Model and SN:	*pH 4 (standard units)*	*pH 7 (standard units)*	*pH 10 (standard units)*	*ORP (mV)*	*Cond. (_____)*	*DO (Zero) mg/L*	*DO (mg/L) / Temp.*
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	*NTU*	*NTU*	*NTU*	*NTU*	*Comments*
Pre-calibration Reading					
Post-calibration Reading					

Personnel Signature/Date

Water Quality Meter
Calibration Form

Site Name: NASA CURE
Location: KSC, FL
Date: 6/26/09

Calibration Standards Lot Numbers and Expiration Date			
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH 7.0	1892360 / 10-3-09		
pH 10.0	1892502 / 10-3-09		
pH 4.0	6445 / 7-24-09		
CONDUCT.	@ 4.49 mS/cm "		
ORP	1203 / 11-2013		

SN 03023973 4k

Meter make/Model and SN: YSI 556 MPS	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP (mV) @ ~23°C	Cond. (mS/cm) @ 4.49	DO (Zero) mg/L @ 758.9 mmHg	DO (mg/L) / Temp.
Pre-calibration Reading	4.13	7.00	10.09	227.5	4.53	117.4	
Post-calibration Reading	4.02	—	10.00	229.5	4.49	99.9	8.65 mg/L

SN 2622-1602

Meter make/Model and SN: LAMOTTE 2020	10.0 NTU	1.0 NTU	NTU	NTU	Comments
Pre-calibration Reading	9.9	1.00			
Post-calibration Reading	—	—			

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP (mV)	Cond. (_____)	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Personnel Signature/Date

Water Quality Meter Calibration Form

Site Name: CRHE Area **Personnel:** JRB
Location: KSC FL
Date: 7/16/09

Calibration Standards Lot Numbers and Expiration Date					
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH 4	P887599/10-3-2009				
pH 7	P892360/10-3-2009				
pH 10	P892503/10-3-2009				
Cond. 1413	P891036/ July 2009				
ORP 240	1203/11-2013				

Meter make/Model and SN: YSI 556	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading	3.92	6.99	10.06	237.1	1.441	—	7.92
Post-calibration Reading	4.00	7.00	10.01	240.0	1.388	—	8.48

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Janet Barfus 7/16/09
Signature/Date

Water Quality Meter Calibration Form

Site Name: CWRE **Personnel:** K DAPRATO

Location: MSC FL

Date: 7/17/09

Calibration Standards Lot Numbers and Expiration Date					
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH=7	P888160 / 2-20-2010				
pH=4	P887599 / 10-03-2009				
pH=10	P892502 / 10-03-2009				
1413 µS/cm	P891026 / July 2009				
240 mV	1203 / 4-2013				

Meter make/Model and SN: (SOJ) BAL YSI 556	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.	
Pre-calibration Reading	4.04	7.12	9.88	241.5	1,263		9.22	22.04
Post-calibration Reading	4.00	7.00	9.99	240	1,413		8.74	22.06

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

KC CWF 7/17/09
Signature/Date

Water Quality Meter
Calibration Form

Site Name: KSC - CRHE **Personnel:** ALEX RIVERA
Location: CAPE CANAVERAL, FL
Date: 8/4/09

Calibration Standards Lot Numbers and Expiration Date					
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
7.0	AURICAL 6918/03-10				
4.0	AURICAL 6943/03-10				
ORP	VITAL 1316/01-14				
COND.	ESI 7130/5-10				

Meter make/Model and SN: YSI 556 07C2069 AF	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP 240mV	Cond. µS/cm (1413)	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading	3.97	7.10	NA	237.2	1426	113.3	@ 27.6
Post-calibration Reading	4.0	7.00	NA	240.0	1413	100.0	7.03 mg/L

Meter make/Model and SN: LaMotte 2020e #ME 13228	1.0 NTU	10 NTU	NTU	NTU	Comments
Pre-calibration Reading	1.06	11.3			
Post-calibration Reading	—	9.93			

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

[signature] 8/4/09
Signature/Date

Water Quality Meter
Calibration Form

Site Name: KSC - CRHE **Personnel:** ALEX RIVERA
Location: CAPE CANAVERAL, FL
Date: 8/5/09

Calibration Standards Lot Numbers and Expiration Date					
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
7.0	AURICAL 6918/03-10				
4.0	AURICAL 6983/03-10				
ORP	VITAL 1316/01-14				
COND.	FSI 7130/5-10				

Meter make/Model and SN: YSI 556 07C2007AF	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP 240mV	Cond. µS/cm (1413)	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading	4.13	6.87	NA	244.4	1323	101.4	@ 24.7° C
Post-calibration Reading	4.00	7.00	NA	240.0	1413	100.0	8.31

Meter make/Model and SN: LaMotte 2020e #ME 13228	1.0 NTU	100 NTU	NTU	NTU	Comments
Pre-calibration Reading	0.64	9.31			
Post-calibration Reading	0.92	9.89			

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond. µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

8/5/09
Signature/Date

Water Quality Meter Calibration Form

Site Name: CRHE Area
Location: KSC, FL
Date: 8/6/09

Personnel: Jan Barfus

Calibration Standards Lot Numbers and Expiration Date					
Standard	Lot / Exp. Date	Standard	Lot / Exp. Date	Standard	Lot / Exp. Date
pH 4	P887599/10-3-2009				
pH 7	P888160/~~12-3-2010~~				
pH 10	P892502/10-3-2009				
Cond 1413	6796/1-15-2010				
ORP 240	1279/12-2013				

YSI 556
05D2373AK

Meter make/Model and SN: YSI 556	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading	3.88	7.38	9.40	238	1.235	—	9.95 T=21.6°C
Post-calibration Reading	4.00	7.00	9.88	240	1.335	—	8.81

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Meter make/Model and SN:	pH 4 (standard units)	pH 7 (standard units)	pH 10 (standard units)	ORP	Cond µS/cm	DO (Zero) mg/L	DO (mg/L) / Temp.
Pre-calibration Reading							
Post-calibration Reading							

Meter make/Model and SN:	NTU	NTU	NTU	NTU	Comments
Pre-calibration Reading					
Post-calibration Reading					

Jan Barfus 8/6/09
Signature/Date

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR/6681 Field Personnel: Meghan Ritter

Water Quality Meter - Model/Serial #: Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		1/25/10	6:20	22.7	1.725	8.67->8.59	102.3->100.3	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/25/10	6:20	1.413	6969	3/2/10	1.423->1.414	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		1/25/10	~~4~~ 6:20	4	6943	3/10	4.20->4.01	(P) F
CAL ICV CCV		1/25/10	~~7~~	7	28100821	9/10	7.02->7.00	(P) F
CAL ICV CCV		1/25/10	~~10~~	10	2808147	1/10	10.09->10.01	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/25/10	6:20	240	1279	12/2013	235.7->240.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. **See Table FS 2200-2 on the back of this form**

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR16681 Field Personnel: Meghan Ritter

Water Quality Meter - Model/Serial #: Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		1/26/10	0730	temperature never got high enough to calibrate				P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/26/10	0730	1.413	74446	10-2010	1.360→1.40	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		1/26/10	0730	4.0	2804313	04-2010	3.89→3.99	P F
CAL ICV CCV		1/26/10	0730	7.0	2815886	12-2010	7.16→7.02	P F
CAL ICV CCV		1/26/10	0730	10.0	2190440	12-2010	10.04→10.01	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/26/10	0730	240	1203	11-2013	247.5 →240.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments: _____

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Meghan Ritter

Water Quality Meter - Model/Serial #: Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		1/27/10	0615	22.31	~~8.53~~ 8.530	8.51→8.53	96.1→96.2	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/27/10	0615	1.413	7446	10-2010	~~1.501~~ 1.497→1.495	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		1/27/10	0615	4.0	28049313	04-2010	4.14→3.99	P F
CAL ICV CCV		1/27/10	0615	7.0	28015506	12-2010	6.90→7.00	P F
CAL ICV CCV		1/27/10	0615	10.0	19064410	12-2010	10.05→10.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/27/10	0615	240	1203	11-2013	227→240	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR16981 Field Personnel: Meghan Ritter

Water Quality Meter - Model/Serial #:

Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		1/28/10	6:30	21.26	8.63	8.868→	97.9→	(P) F
CAL ICV CCV						8.86	100.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/28/10	6:30	1.413	7446	10-2010	1.550→1.511	P (F)
CAL ICV CCV				1.413	7446	10-2010	1.500→1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		1/28/10	6:30	4.0	28043B	04-2010	4.02→4.00	(P) F
CAL ICV CCV		1/28/10	6:30	7.0	28158A6	12-2010	6.91→7.00	(P) F
CAL ICV CCV		1/29/10	6:30	10.0	19060040	12-2010	10.18→10.03	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		1/28/10	6:30	240	1203	11-2013	231.5→240.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings: always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR16831 Field Personnel: Meghan Ritter

Water Quality Meter - Model/Serial #:

Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		1/29/10	630	21.69	8.644	8.58→	97.8→	(P) F
CAL ICV (CCV)		"	1635	22.50	8.460	8.64	98.10	P F
CAL ICV CCV						8.65	100.0	(P) F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		1/29/10	630	1.413	7446	10-2010	1.388→	(P) F
CAL ICV (CCV)		"	1625	1.413	7446	"	1.419	
CAL ICV CCV							1.414	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		1/29/10	630	4.0	2804313	04-2010	4.02→	(P) F
(CAL) (ICV) CCV		1/29/10	630	7.0	2815586	12-2010	3.99	P F
(CAL) (ICV) CCV		1/29/10	630	10.0	19006640	12-2010	6.89→7.00	(P) F
CAL ICV (CCV)		"	1615	4.0	Same		→10.13→10.04	P F
CAL ICV (CCV)		"	1618	7.0	as		4.14	(P) F
CAL ICV (CCV)		"	1620	10.0	above		6.93	(P) F
							10.00	F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		1/29/10	630	240	1203	11-2013	238.9→	(P) F
CAL ICV (CCV)		"	1630	"	"	"	241.1	P F
CAL ICV CCV							235.7	(P) F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: Contractors Rd CRHE Project #: FR1681 Field Personnel: NRS

Water Quality Meter - Model/Serial #: YSI 556 MPS / 09F100231 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2/1/10	0645	18.59	9.352	8.22/7.39	87.8/100.8	(P) F
CAL ICV (CCV)		"	1745	20.74	8.968	8.84	98.6	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/1/10	0645	1.413	6909	3/2/10	1.440/1.413	(P) F
CAL ICV (CCV)		"	1738	"	"	"	1.491	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2/1/10	0645	4.0	28-4313	4/10	4.06/4.00	(P) F
(CAL) (ICV) CCV		"	"	7.0	2810091	9/10	6.96/7.00	(P) F
(CAL) (ICV) CCV		"	"	10.0	1906690	12/10	10.01/10.00	(P) F
CAL ICV (CCV)		"	1735	4.0	Same as	above	4.03	(P) F
CAL ICV (CCV)		"	"	7.0			7.01	(P) F
CAL ICV (CCV)		"	"	10.0	"	"	9.94	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/1/10	0645	240 @ 25	1203	11/10	247.7/241.0	(P) F
CAL ICV (CCV)		"	1740	"	"	4	237.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 10%		
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 8%		
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 6.5%		
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 5%		
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: JRB

Water Quality Meter - Model/Serial #: YSI 556 MPS / 09F100231 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2/2/10	0655	21.20	8.880	8.48-8.80	99.1	(P) F
CAL ICV (CCV)		"	1750	22.72	8.627	8.55	99.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/2/10	0648	1.413	6909	3/2/10	1.435-1.413	(P) F
CAL ICV (CCV)		"	1742	"	"	"	1.372	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2/2/10	0645	4.0	2804313	4/10	4.00	(P) F
(CAL) (ICV) CCV		"	"	7.0	2810081	9/10	6.96-7.00	(P) F
(CAL) (ICV) CCV		"	"	10.0	1906640	12/10	9.96-10.00	(P) F
CAL ICV (CCV)		"	1740	4.0	Same		4.07	(P) F
CAL ICV (CCV)		"	"	7.0	as		7.01	(P) F
CAL ICV (CCV)		"	"	10.0	above		9.97	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/2/10	0650	240@25	1203	11/10	236-240	(P) F
CAL ICV (CCV)		"	1744	"	"	4	236.7	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings, always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: JRB

Water Quality Meter - Model/Serial #:

Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2/3/10	0645	20.10	9.074	9.25→9.07	101.7→100.1	(P) F
CAL ICV (CCV)		"	1615	22.10	8.799	8.64	99.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/3/10	0638	1.413	6909	3/2/10	1.398→1.413	(P) F
CAL ICV (CCV)		"	1604	"	"	"	1.437	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2/3/10	0635	4.0	28043I3	4/10	4.07→4.00	(P) F
(CAL) (ICV) CCV		"	"	7.0	28100081	9/10	6.94→7.00	(P) F
(CAL) (ICV) CCV		"	"	10.0	1906640	12/10	9.96→9.99	(P) F
CAL ICV (CCV)		"	1600	4.0	Same		4.02	(P) F
CAL ICV (CCV)		"	"	7.0	as		7.05	(P) F
CAL ICV (CCV)		"	"	10.0	above		9.98	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/3/10	0640	240@25	1203	11/10	243.5→240.0	(P) F
CAL ICV (CCV)		"	1612	"	"	"	237.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings: always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE - Contractors Rd Project #: FR1690 Field Personnel: MRS

Water Quality Meter - Model/Serial #: YSI 556 MPS / 05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		3/2/10	0705	20.58	8.885	7.13/8.77	101.6/100.1	(P) F
CAL ICV (CCV)		↓	1715	22.78	8.611	8.77	101.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		3/2/10	0705	1.413	7283	7/13/10	1.481/1.413	(P) F
CAL ICV (CCV)		↓	1715	↓	↓	↓	1.393	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		3/2/10	0705	4.0	2804313	4/10	4.04/4.00	(P) F
(CAL) (ICV) CCV		↓	↓	7.0	2810081	9/10	6.96/7.00	(P) F
(CAL) (ICV) CCV				10.0	1906640	12/13	9.99/10.00	(P) F
CAL ICV (CCV)			1715	4.0	↓	↓	4.00	(P) F
CAL ICV CCV			↓	7.0			6.96	(P) F
CAL ICV CCV				10.0			7.91	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		3/2/10	0705	240 @ 25	1203	4/13	244.5/240.2	(P) F
CAL ICV (CCV)		↓	1715	↓	↓	↓	238.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CHRE - Contractors RI Project #: FR1681 Field Personnel: NRS

Water Quality Meter - Model/Serial #: YSI 556 MPS / 05D 2273 AK Turbidimeter - Model/Serial #

Dissolved Oxygen

DEP SOP FT 1500 | Acceptance Criteria: +/-0.3mg/L

	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
(CAL) (ICV) CCV	2/22/10	0640	22.39	8.677	9.04/8.68	104.3/100.2	(P) F
CAL ICV (CCV)	↓	1750	23.67	8.466	10.30	121.7	P (F)
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance

DEP SOP FT 1200 | Acceptance Criteria: +/- 5%

	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
(CAL) (ICV) CCV	2/22/10	0640	1.413	7283	7/13/10	1.423/1.417	(P) F
CAL ICV (CCV)	↓	1750	↓	↓	↓	1.341	P (F)
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F

pH

DEP SOP FT 1100 | Acceptance Criteria: +/-0.2 SU

	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
(CAL) (ICV) CCV	2/22/10	0646	4.0	280313	04/10	3.93/4.00	(P) F
(CAL) (ICV) CCV	↓	↓	7.0	28/0081	09/10	7.07/7.00	(P) F
(CAL) (ICV) CCV	↓	↓	10.0	1906640	12/10	9.93/9.98	(P) F
CAL ICV (CCV)	↓	1750	4.0	↓	↓	4.06	(P) F
CAL ICV (CCV)	↓	↓	7.0	↓	↓	7.01	(P) F
CAL ICV (CCV)	↓	↓	10.0	↓	↓	9.94	(P) F

ORP

SOP N/A | Geosyntec Acceptance Criteria: +/- 5%

	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
(CAL) (ICV) CCV	2/22/10	0640	240@25	1203	11/13	246.7/240.0	(P) F
CAL ICV (CCV)	↓	1750	↓	↓	↓	237.7	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU

Acceptance Criteria: +/- 10%

	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU

Acceptance Criteria: +/- 8%

	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU

Acceptance Criteria: +/- 6.5%

	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU

Acceptance Criteria: +/- 5%

	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments: DO & Specific Conductance Failed CCV

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: ERHE Project #: FR1681 Field Personnel: NRS

Water Quality Meter - Model/Serial #: YSI 556 MPS/ 05D2873 AC Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2/23/10	0700	21.2	7.761	8.76/8.76	100.1/99.7	(P) F
CAL ICV (CCV)		↓	1805	23.1	8.67	8.31	97.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/23/10	0700	1.413	7.283	7/13/10	1.373/1.413	(P) F
CAL ICV (CCV)		↓	1805	↓	↓	↓	1.405	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2/23/10	0700	4.0	1864313	04/10	3.99/4.00	(P) F
(CAL) (ICV) CCV			↓	7.0	2810081	09/10	7.01/7.00	(P) F
(CAL) (ICV) CCV			↓	10.0	1906640	10/10	9.86/9.89	(P) F
CAL ICV (CCV)			1805	4.0			4.07	(P) F
CAL ICV (CCV)			↓	7.0			7.06	(P) F
CAL ICV (CCV)		↓	↓	10.0			9.97	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/23/10	0700	240 @ 25	1303	11/13	241.3/240.3	(P) F
CAL ICV (CCV)		↓	1805	↓	↓	↓	235.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: LRHE - Contractors Rd Project #: FR1681 Field Personnel: NRS

Water Quality Meter - Model/Serial #: YSI 556 MPS / 05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2/24/10	0705	21.28	8.963	4.02/8.86	101.8/99.2	(P) F
CAL ICV CCV		↓	1730	22.87	8.595	9.30	108.2	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/24/10	0705	1.413	7283	7/13/10	1.471/1.413	(P) F
CAL ICV CCV		↓	1730	↓	↓	↓	1.410	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2/24/10	0705	4.0	2804313	04/10	4.04/4.00	(P) F
(CAL) (ICV) CCV		↓	↓	7.0	2810491	09/10	6.96/7.00	(P) F
(CAL) (ICV) CCV				10.0	1706690	12/10	9.99/10.00	(P) F
CAL ICV CCV			1730	4.0			3.95	(P) F
CAL ICV CCV			↓	7.0			7.05	(P) F
CAL ICV CCV		↓	↓	10.0	↓	↓	10.00	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/24/10	0705	240 @ 25	1203	4/13	241.1/240.0	(P) F
CAL ICV CCV		↓	1730	↓	↓	↓	238.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments: DO Failed CCV

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE - Contractors RI Project #: FR1681 Field Personnel: NRS

Water Quality Meter - Model/Serial #: YSI 556 MPS / 05D2737AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2/28/10	0705	20.48	7.021	7.69/7.01	107.4/100.3	(P) F
CAL ICV (CCV)		↓	1800	20.70	8.732	8.92	99.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/25/10	0705	1.413	7283	7/13/10	1.474/1.414	(P) F
CAL ICV (CCV)		↓	1800	↓	↓	↓	4347	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2/25/10	0705	4.0	8P04313	4/10	3.97/4.00	(P) F
(CAL) (ICV) CCV		↓	↓	7.0	28100981	09/10	7.12/7.00	(P) F
(CAL) (ICV) CCV				10.0	6905640	12/10	9.81/9.98	(P) F
CAL ICV (CCV)			1800	4.0			4.04	P F
CAL ICV (CCV)			↓	7.0			7.01	P F
CAL ICV (CCV)		↓	↓	10.0	↓	↓	9.96	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2/25/10	0705	240 @ 25	1203	4/13	240.9/240.2	(P) F
CAL ICV (CCV)		↓	1800	↓	↓	↓	242.5	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: Specific Conductance failed CCV

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRTE - Contractors Rd Project #: FR1681 Field Personnel: Angel Martin

Water Quality Meter - Model/Serial #: YSI 05D2373 AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		2-26-10	0620	20.53	9.003	9.66->8.99	107.4->99.1	(P) F
CAL ICV (CCV)		2-26-10	1742	20.82	8.980	9.81	108.8	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2-26-10	0625	1.413	7288	7-13-10	1.428->1.414	(P) F
(CAL) (ICV) (CCV)		2-26-10	1745	1.413	7288	7-13-10	1.235	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		2-26-10	628	4.0	2804313	4-2010	4.20->3.98	(P) F
(CAL) (ICV) CCV		2-26-10	626	7.0	2810081	9-2010	6.82->7.00	(P) F
(CAL) (ICV) CCV		2-26-10	630	10.0	1906640	12-2010	10.10->10.02	(P) F
CAL ICV (CCV)		2-26-10	1748	7.0	2804313	4-2010	7.08	(P) F
CAL ICV (CCV)		2-26-10	1750	7.0	2810081	9-2010	7.03	(P) F
CAL ICV (CCV)		2-26-10	1752	10.0	1906640	12-2010	9.96	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		2-26-10	633	240	1203	11-13	243->240	(P) F
CAL ICV (CCV)		2-26-10	1755	240	1203	11-13	238.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: Specific Conductance Failed CCV

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: LRHF Contractors Road Project #: FR1681 Field Personnel: NRS

Water Quality Meter - Model/Serial #: YSI 556 MPS / 05D 23733AC Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		3/1/10	0705	20.67	8.968	7.87/8.93	67.6/79.9	(P) F
CAL ICV CCV		↓	1747	23.31	8.530	8.75	102.6	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		3/1/10	0705	1.413	7283	7/13/10	1.344/1.413	(P) F
CAL ICV CCV		↓	~~0545~~ 1748	↓	↓	↓	1373	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		3/1/10	0705	4.0	0804313	4/10	3.85/4.00	(P) F
(CAL) (ICV) CCV				7.0	0810781	9/10	7.10/7.00	(P) F
(CAL) (ICV) CCV				10.0	1906640	12/10	9.75/9.99	(P) F
CAL ICV CCV			~~0545~~ 1746	4.0			4.07	(P) F
CAL ICV CCV				7.0			6.97	(P) F
CAL ICV CCV				10.0			9.73	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		3/1/10	0705	240 @ 25	1203	4/13	241.2/242.1	(P) F
CAL ICV CCV		↓	1745	↓	↓	↓	237.3	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556/05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/14/10	0645	22.92	8.595	8.22→8.60	95.7→100.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/14/10	0635	1.413	801111	06-2010	1.532→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/14/10	0630	pH4	7696	2/3/11	3.90→4.00	(P) F
(CAL) (ICV) CCV		"	"	pH7	7229	8/15/10	7.18→7.00	(P) F
(CAL) (ICV) CCV		"	"	pH10	7150	8/20/10	9.88→9.98	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/14/10	0640	240@25°C	1630	06/2014	237.9→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556/05D237AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/15/10	0700	22.97	8.578	7.69→8.58	88.8→99.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/15/10	0650	1.413	80111	06-2010	1.507→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/15/10	0645	pH4	7696	2/3/11	4.09→4.00	(P) F
(CAL) (ICV) CCV		"	"	pH7	7229	8/15/10	6.99→7.00	(P) F
(CAL) (ICV) CCV		"	"	pH10	7150	8/30/10	9.95→9.99	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/15/10	0655	240@25°C	1636	06/2014	240.9→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556/05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/16/10	700	22.60	8.644	11.6→8.64	135.2→100.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/16/10	0655	1.413	801111	06-2010	1.36→1.412	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/16/10	0645	pH 4	7696	2/3/11	4.18→4.00	(P) F
(CAL) (ICV) CCV		"	"	pH 7	7229	8/15/10	6.89→7.00	(P) F
(CAL) (ICV) CCV		"	"	pH 10	7150	8/20/10	10.15→10.02	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/16/10	0650	240 @ 25°C	8 1630	06-2014	236.8→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556/05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/17/10	0700	23.49	8.498	8.83→8.56	103.8→99.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/17/10	0655	1.413	801111	06-2010	1.402→1.412	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/17/10	0645	pH 4	7696	2/3/11	3.93→4.00	(P) F
(CAL) (ICV) CCV		"	"	pH 7	7229	8/18/10	7.05→7.00	(P) F
(CAL) (ICV) CCV		"	"	pH 10	7150	8/20/10	10.02→10.00	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/17/10	0650	240@25°C	1630	06/2014	239.0→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556/05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (CV) CCV		6/18/10	0640	23.36	8.514	8.29→8.57	97.3→100.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (CV) CCV		6/18/10	0630	1.413	801111	06-2010	1.426→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/18/10	0625	pH4	7696	2/3/11	4.03→4.00	(P) F
(CAL) (ICV) CCV		"	"	pH7	7229	8/15/10	6.81→7.00	(P) F
(CAL) (CV) CCV		"	"	pH10	7150	8/20/10	10.19→10.03	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/18/10	0635	240@25°C	1630	06/2014	238.4→240.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556/05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/21/10	0625	23.12	8.562	7.82→8.56	91.4→100.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/21/10	0620	1.413	801111	06-2010	1.665→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/21/10	0615	pH4	7696	2/3/11	3.78→4.00	(P) F
(CAL) (ICV) CCV		"	0615	pH7	7229	8/15/10	7.09→7.00	(P) F
(CAL) (ICV) CCV		"	0615	pH10	7156	8/20/10	9.94→9.99	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/21/10	0618	240@25°C	1630	06/2014	245.2→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556 / 05D2373AK Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/22/10	0645	23.52	8.218	7.87→8.17	92.5→96.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/22/10	0640	1.413	801111	06-2010	1.423→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/22/10	0630	pH4	7696	2/3/11	4.19→4.00	(P) F
(CAL) (ICV) CCV		"	"	pH7	7229	5/15/10	6.84→7.00	(P) F
(CAL) (ICV) CCV		"	"	pH10	7150	5/20/10	9.98→10.00	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/22/10	0635	240@25°C	1630	06/2014	238.3→240.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: NASA - CRHE Project #: FR1681 Field Personnel: J. Mc Kinnon

Water Quality Meter - Model/Serial #: YSI 556 MB Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		8.2.10	0648	24.42	8.36		10.57	P (F)
(CAL) ICV CCV		8.2.10	0651	25.09 ~~24.43~~	~~8.05~~ 8.236		8.05	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.2.10	0656	1.413	8057	6/07/11	0.700	P (F)
(CAL) ICV CCV		8.2.10	0659	1.413	8057	6/07/11	1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		8.2.10	0701	4.0	7696	02/3/11	3.96	(P) F
CAL (ICV) CCV		8.2.10	0704	7.0	2810081	9-2010	6.99	(P) F
CAL (ICV) CCV		8.2.10	0705	10.0	2810081	10-2010	10.00	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.2.10	0707	240@25°	1630	05/2014	245.02	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: NASA- CRHE Project #: FR1681 Field Personnel: J. McKinnon

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		8.3.10	0725	27.37	7.912	8.23	110.7	P (F)
(CAL) ICV CCV		8.3.10	0728	27.39	7.912	7.91	100.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.3.10	0732	1.413	8057	06/07/2011	1.297	P (F)
(CAL) ICV CCV		8.3.10	0734	1.413	8057	06/07/2011	1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		8.3.10	0735	4.0	7696	02/3/11	4.06	(P) F
CAL (ICV) CCV		8.3.10	0737	7.00	2810081	9-2010	7.06	(P) F
CAL (ICV) CCV		8.3.10	0738	10.00	2904590	10-2010	10.02	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.3.10	0740	240 @ 25°C	1636	05/2014	236.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings: always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: FR1681 NASA-CRHE Project #: FR1681 Field Personnel: T. McKinnon

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria: +/-0.3mg/L			
CAL (ICV) CCV		8.4.10	0720	28.23	7.80		8.68	P (F)
(CAL) ICV CCV		8.4.10	0721	28.23	7.80		7.80	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.4.10	0723	1.413	8057	06/07/2011	2.068	P (F)
(CAL) ICV CCV		8.4.10	0725	1.413	8057	06/07/2011	1.425	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		8.4.10	0726	4.0	7696	02/3/11	4.09	(P) F
CAL (ICV) CCV		8.4.10	0729	7.00	2810081	9-2010	7.02	(P) F
CAL (ICV) CCV		8.4.10	0731	10.00	2904590	OCT 2010	10.00	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.4.10	0732	240 @ 25 mV	1630	05/2014	238.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: NASA - CRHE Project #: FR1681 Field Personnel: J. McKinnon

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria: +/-0.3mg/L			
CAL (ICV) CCV		8.5.10	0726	26.99	7.968	8.89	111.4	P (F)
(CAL) ICV CCV		8.5.10	0727	27.03	7.968	7.97	98.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.5.10	0729	1.413*	8057	06/07/2010	1.851	P (F)
(CAL) ICV CCV		8.5.10	0730	1.413	8057	06/07/2010	1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		8.5.10	0731	4.0	7696	02/3/11	4.06	(P) F
CAL (ICV) CCV		8.5.10	0733	10.00	2904590	OCT 2010	9.95	(P) F
CAL (ICV) CCV		8.5.10	0734	7.00	2810081	9-2010	7.10	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		8.5.10	0935	240@25.8°C	1630	05/2011	237.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: NASA - CRHE Project #: FR1681 Field Personnel: J. McKinnon

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial #

Dissolved Oxygen

DEP SOP FT 1500 | Acceptance Criteria: +/-0.3mg/L

	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
CAL (ICV) CCV	8.6.10	0711	27.88	7.842	13.50	13.50 157.7	P (F)
CAL ICV CCV	8.6.10	0713	27.88	7.842	7.75	9.98	(P) F
CAL (ICV) CCV	8.6.10	0809	26.64	8.026	75.2	5.75	P (F)
CAL ICV CCV	8.6.10	0810	27.06	8.026			P F

Specific Conductance

DEP SOP FT 1200 | Acceptance Criteria: +/- 5%

	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
CAL (ICV) CCV	8.6.10	0715	1.413	8057	06/07/2010	1.532	P (F)
CAL ICV CCV	8.6.10	0716	1.413	8057	06/07/2010	1.413	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F

pH

DEP SOP FT 1100 | Acceptance Criteria: +/-0.2 SU

	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
CAL (ICV) CCV	8.6.10	0718	4.0	7696	02/3/11	4.06	(P) F
CAL (ICV) CCV	8.6.10	0720	7.00	2810081	09-2010	7.01	(P) F
CAL (ICV) CCV	8.6.10	0722	10.00	2904590	OCT-2010	10.00	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F

ORP

SOP N/A | Geosyntec Acceptance Criteria: +/- 5%

	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
CAL (ICV) CCV	8.6.10	0726	240@25°C	1630	05/2014	237.9	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

Turbidimeter

Acceptance Criteria: +/- 10%

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Acceptance Criteria: +/- 8%

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Acceptance Criteria: +/- 6.5%

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Acceptance Criteria: +/- 5%

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Comments: Replaced D.O. membrane at 0808
D.O. keeps decreasing.

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings: always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556 / 04K16980AC Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		8/9/10	0630	23.38	8.514	6.85→8.51	79.3→98.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (CV) CCV		8/9/10	0620	1.413	8057	6/9/11	1.352→1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		8/9/10	0610	4.0	7696	2/3/11	4.03→4.00	P F
(CAL) (ICV) CCV		〃	〃	7.0	7229	5/16/10	7.10→7.02	P F
(CAL) (ICV) CCV		〃	〃	10.0	7150	8/20/10	9.93→9.99	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		8/9/10	0625	240@25°C	1630	05/2014	245.9→240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556 / 04K18980 AC Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		8/10/10	0645	23.23	8.546	8.21→8.53	96.1→99.9	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		8/10/10	0635	1.413	8057	6/7/11	1.436→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		8/10/10	0630	4.0	7696	5/3/11	4.06→4.00	(P) F
(CAL) (ICV) CCV		11	11	7.0	7229	8/15/10	6.95→7.00	(P) F
(CAL) (ICV) CCV		11	11	10.0	7158	8/20/10	10.01→10.00	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		8/10/10	0640	240@25C	1630	05/2014	239.2→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRITE Project #: FR1681 Field Personnel: Jan Barfus

Water Quality Meter - Model/Serial #: YSI 556 / 04K18980AC Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		8/11/10	0630	24.8	8.294	9.73→8.29	117.4→100.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		8/11/10	0620	1.413	8057	6/7/11	1.358→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		8/11/10	0615	4.0	7696	2/3/11	3.98→4.00	(P) F
(CAL) (ICV) CCV		"	"	7.0	7229	8/15/10	7.02→7.00	(P) F
(CAL) (ICV) CCV		"	"	10.0	7150	8/20/10	9.90→9.98	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		8/11/10	0625	240@25C	1630	05/2014	238.5→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec sultants

Water Quality Instrument Calibration Form

Project/Site: CHRE Project #: FR1681 Field Personnel: JLA

Water Quality Meter - Model/Serial #: YSI556 08A100738 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		10/11/10	0700	23.1	8.562	8.85→8.55	99.6	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		10/11/10	0646	1.413	7807	3/2011	1.553→1.493	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		10/4/10	0650	4	2003526	3/2012	4.15→4.0	P F
CAL ICV CCV		10/11/10	0652	7	~~2006065~~ JB 2005605	5/2012	6.87→7.0	P F
CAL ICV CCV								P F
CAL ICV CCV		10/4/10	0655	10	AD-9265-2	12/16	9.95→10.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		10/4/10	0658	240±25	2459	6/2015	241.3→240	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHF Project #: FR1681 Field Personnel: JLA

Water Quality Meter - Model/Serial #: YSI 556 08A100738 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		10/12/10	0715	21.3	8.863	9.04	98.8 100.2	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		10/12/10	0700	1.413	7806	3/2011	1.318 1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		10/12/10	0705	4	2909313	8/2011	4.38 4	P F
CAL ICV CCV		10/12/10	0708	7	2009605	5/2012	6.97 7.0	P F
CAL ICV CCV		10/12/10	0710	10	100 2055	7/2011	10.12 10	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		10/12/10	0717	240 @25	2282	3/2015	242.8 234.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If para fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

/23/2009

Geosyntec Consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE / FR11681 Project #: FR11681 Field Personnel: JLA

Water Quality Meter - Model/Serial #: YSI 556 08A 100738 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV CCV		10/13/10	0651	23.4	8.514	8.49-8.51	100.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV CCV		10/13/10	0630	1.413	7806	3/2011	1.484-1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV CCV		10/13/10	0632	4	2909313	8/2011	4.12-4.0	(P) F
(CAL) ICV CCV		10/13/10	0635	7	2005605	5/2012	6.98-7.0	(P) F
(CAL) ICV CCV		10/13/10	0638	10	1002035	7/2011	10.18-10.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV CCV		10/13/10	0642	240@25	2282	3/2015	240-240.7	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRTE Project #: FR1681 Field Personnel: SLA

Water Quality Meter - Model/Serial #: YSI 556 08A100738 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		10/14/10	0652	21.6	8.812	9.12→8.81	99.6	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		10/14/10	0637	1.413	7806	3/2011	1.399→1.416	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		10/14/10	0639	4	2909313	8/2011	4.12→4.00	(P) F
(CAL) (ICV) CCV		10/14/10	0641	7	2005605	5/2012	6.70→7.00	(P) F
(CAL) (ICV) CCV		10/14/10	0645	10	1002035	7/2011	10.22→10.03	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		10/14/10	0646	240@25	2282	3/2015	241.8→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If par fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

3/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CAHE Project #: FA1681 Field Personnel: JLA

Water Quality Meter - Model/Serial #: YSI 556 08A100738 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		10/15/10	0648	16.31	9.808	10.49→9.81	99.9%	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		10/15/10	0632	1.413	7806	3/2011	1.420→1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		10/15/10	0634	4	2909313	8/2011	4.44→4.0	(P) F
(CAL) (ICV) CCV		10/15/10	0636	7	2005605	5/2012	6.55→7.0	(P) F
(CAL) (ICV) CCV		10/15/10	0641	10	1002035	7/2011	10.52→10.03	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		10/15/10	0643	240 @ 25	2282	3/2015	244.1→240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments: pH 7 calibrated out of range

CAL - Initial Calibration

ICV - Initial Callbration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If para ails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

/23/2009

Geosynte nsultants
Instrument Calibration Form

Project/Site: Contractors Road Project #: FR1681 Field Personnel: Derik Stratton

Water Quality Meter - Model/Serial #: YSI 556MPS 09G101376 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp °C	Saturation mg/L (Table 2200-2 or 1500-1)	Reading mg/L	Reading %	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		10-19	0803	21.36	8.846	9.23-8.85	104.2-100.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard mS/cm	Lot #	Exp. Date	Reading mS/cm	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL ICV CCV		10-19	0641	1.413	8809	03-12	1.418-1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Buffer pH	Lot #	Exp. Date	Reading SU	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV CCV		10-19	0630	4.00	2002034	01-12	4.08-4.00	P F
CAL ICV CCV		10-19	0633	7.0	2002032	01-12	6.88-7.00	P F
CAL ICV CCV		10-19	0638	10.0	2101326	07-12	10.16-10.03	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV	ORP	10-19	0659	240@25	2244	03-15	240.4-240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 10%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

11 - 40 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 8%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

41 - 100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 6.5%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

>100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 5%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

Geosyntec consultants

Version 1 (2009-06-16)

Geosynte nsultants
Instrument Calibration Form

Project/Site: Contractors Road ~~Wilson Corner~~ DS Project #: FR1681 Field Personnel: Derik Stratton

Water Quality Meter - Model/Serial #: YSI 556 MPS 09G101376 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp °C	Saturation mg/L (Table 2200-2 or 1500-1)	Reading mg/L	Reading %	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		10-20	0736	18.89	9.295	9.45 - 9.30	101.7 - 100.2	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard mS/cm	Lot #	Exp. Date	Reading mS/cm	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL ICV CCV		10-20	0652	1.413	8809	03-2012	1.431-1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Buffer pH	Lot #	Exp. Date	Reading SU	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV CCV		10-20	0643	4.0	2002034	01-2012	4.07 - 4.00	P F
CAL ICV CCV		10-20	0647	7.0	2002012	01-2012	6.84 - 7.00	P F
CAL ICV CCV		10-20	0650	10.0	2101326	07-2012	10.27 - 10.04	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV	ORP	10-20	0705	240@25	02244	03-2015	247.6 - 240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 10%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

11 - 40 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 8%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

41 - 100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 6.5%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

>100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 5%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

Geosyntec consultants

Geosynte nsultants
Instrument Calibration Form

Project/Site: Contractor's Road Project #: FR1681 Field Personnel: Derik Stratton

Water Quality Meter - Model/Serial #: YSI 556MPS 09G101376 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp °C	Saturation mg/L (Table 2200-2 or 1500-1)	Reading mg/L	Reading %	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		10-21	0736	~~17.81~~ 18.10 OS	~~4.126~~ 9.448	8.78-9.45	92.9-100.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard mS/cm	Lot #	Exp. Date	Reading mS/cm	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		10-21	0644	1.413	8809	03-12	1.410-1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Buffer pH	Lot #	Exp. Date	Reading SU	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		10-21	0639	4.0	2002034	01-12	3.76-4.00	P F
CAL ICV CCV		10-21	0643	7.0	2002012	01-12	7.15-7.00	P F
CAL ICV CCV		10-21	0646	10.0	2101326	07-12	10.02-10.00	P F
CAL ICV CCV								P F
~~CAL ICV CCV~~								P F
CAL ICV CCV	ORP	10-21	0657	240@25	2244	03-15	242.5-240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 10%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

11 - 40 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 8%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

41 - 100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 6.5%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

>100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 5%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

Geosyntec consultants

Version 1 (2009-06-16)

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE - NASA Project #: FR1681 Field Personnel: J. McKinnon

Water Quality Meter - Model/Serial #: – Turbidimeter - Model/Serial # Hach 2100P

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std 5 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL (ICV) CCV		4.36	P (F)
CAL ICV CCV		4.36	P (F)
CAL ICV CCV		4.36	P (F)
CAL ICV CCV		4.36	P F

11 - 40 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 50 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL (ICV) CCV	43.3	43.3	P (F)
CAL ICV CCV		43.3	P (F)
CAL ICV CCV		43.3	P (F)
CAL ICV CCV		43.3	P (F)
CAL ICV CCV		43.3	P (F)
CAL ICV CCV		43.3	P F

>100 NTU Std 500 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL (ICV) CCV		554	P (F)
CAL ICV CCV		554	P (F)
CAL ICV CCV		554	P (F)
CAL ICV CCV		554	P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments: Hach 2100P does not support field calibration.

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: NAIA - CRHE Project #: FR1681 Field Personnel: A. RIVERA

Water Quality Meter - Model/Serial #: YSI / SN 02H0167AE Turbidimeter - Model/Serial # HACH / 11070C0 / 0673

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		1/9/12	0852	19.4	9.202	9.25	100.8	(P) F
CAL ICV (CCV)		1/10/12	0720	15.8	9.912	9.85	100.3	(P) F
CAL ICV (CCV)		1/11/12	0721	20.2	9.056	8.99	99.3	(P) F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		1/9/12	0845	0.500	117-500-E	03/13	0.515	(P) F
CAL ICV (CCV)		1/10/12	0715	0.500	117-500-E	03/13	0.506	(P) F
(CAL) ICV (CCV)		1/10/12	0843	0.500	117-500-E	03/13	5584	P (F)
(CAL) ICV CCV		1/10/12	0845	0.500	117-500-E	03/13	0.505	(P) F
CAL ICV (CCV)		1/10/12	0716	0.500	117-500-E	03/13	0.487	(P) F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		1/9/12	0840	7.00	105-E	04/13	7.12	(P) F
CAL ICV (CCV)		1/9/12	0842	4.01	104-E	04/13	4.07	(P) F
CAL ICV (CCV)	*0710	1/10/12	*~~0840~~	7.00	105-E	04/13	7.09	(P) F
CAL ICV (CCV)		1/10/12	0712	4.01	104-E	04/13	4.16	(P) F
CAL ICV (CCV)		1/11/12	0710	7.00	105-E	04/13	7.14	(P) F
CAL ICV (CCV)		1/11/12	0713	4.01	104-E	04/13	4.19	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		1/9/12	0848	~235.0	10D100400	04/12	252.4	(P) F
CAL ICV (CCV)		1/10/12	0718	~235.0	10D100400	04/12	239.2	(P) F
CAL ICV (CCV)		1/11/12	0718	235.0	10D100400	04/12	228.2	(P) F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV (CCV)	1/9/12		P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 546 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV (CCV)	1/9/12	558	(P) F
CAL ICV (CCV)	1/10/12	536	(P) F
CAL ICV (CCV)	1/11/12	548	(P) F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: NASA - CRTE Project #: FR1681 Field Personnel: A. R IVERA

Water Quality Meter - Model/Serial #: YSI / SN 02H0167AE Turbidimeter - Model/Serial # HACH / 11070C010673

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		1/12/12	0802	18.00	9.44	9.51	100.5	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		1/12/12	0752	0.500	117-500-E	03/13	0.660	P (F)
(CAL) ICV CCV		1/12/12	0755	0.500	117-500-E	03/13	0.500	(P) F
CAL (ICV) CCV		1/12/12	0757	0.500	117-500-E	03/13	0.504	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		1/12/12	0746	7.00	105-E	4/13	7.13	(P) F
CAL ICV (CCV)		1/12/12	0749	4.01	104-E	4/13	4.19	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		1/12/12	0800	235	10D1004400	04/12	220.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 546 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV (CCV)	1/12/12	549	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Instrument Calibration Form

Project/Site: FR 1681 - CRHE Date: 2-7-12 Field Personnel: Cody Smith (CS)

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial # N/A

Dissolved Oxygen	DEP SOP FT 1500	Initials	Time	Temp °C	Saturation mg/L (Tbl 2200-2)	Saturation % (Tbl 2200-2)	Reading mg/L or %	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		CS	07:13	21.4	8.846		8.81 - 8.84	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Initials	Time	Standard µS/cm	Lot #	Exp. Date	Reading µS/cm	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		CS	07:25	1000			1114 - 1000	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Initials	Time	Standard SU	Lot #	Exp. Date	Reading SU	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		CS	06:10	4.01			4.19 - 4.01	P F
CAL ICV CCV		CS	06:24	7.01			6.88 - 7.01	P F
CAL ICV CCV		CS	06:58	10.00			10.14 - 10.03	P F
CAL ICV CCV								P F

ORP	Initials	Time	Standard mV	Lot #	Exp. Date	Reading mV	Pass or Fail
					Acceptance Criteria: +/- 5%		
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 2%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV (CS)		P F

1 NTU (N/A)	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 2%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

10 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 2%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

100 NTU	NTU Reading	Pass or Fail
	Acceptance Criteria: +/- 2%	
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F
CAL ICV CCV		P F

CAL - Calibrate
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

0179 ↑ GPS

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRITE Project #: F12 Field Personnel: Cody Smith (CS)

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial # N/A

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		2-8-12	6:45	21.1	8.598	20%-10%	6.97-8.83	P F
CAL ICV CCV		2-8-12	18:05	22.7	8.627	-10%	7.82 8.63	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		2-8-12	6:42	1,413	8809	3/12	1,501-1,413	P F
CAL ICV CCV		2-8-12	17:51	1,413	8809	3/12	1,415-1,413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		2-8-12	6:30	4.00	0110969	11/30/12	4.30-4.00	P F
CAL ICV CCV		2-8-12	6:35	7.00	1081860	8/30/13	6.75-7.00	P F
CAL ICV CCV		2-8-12	6:39	10.00	2101326	7/12	10.41-10.00	P F
CAL ICV CCV		2-8-12	17:40	4.00	0110969	11/30/12	4.05-4.00	P F
CAL ICV CCV		2-8-12	17:43	7.00	1081860	8/30/13	6.75-7.00	P F
CAL ICV CCV		2-8-12	17:48	10.00	2101326	7/12	10.45-10.00	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		2-8-12	06:44	229	1061713	6/30/12	237.3-229.0	P F
CAL ICV CCV		2-8-12	17:55	229	1061713	6/30/12	226.8-229.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes / No Disolved Oxygen membrane Changed? Yes / No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV (S)			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Comments:

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: FR1681 - CRHE Project #: FR1681 Field Personnel: Cody Smith (CS)

Water Quality Meter - Model/Serial #: YSI 556 MPS Turbidimeter - Model/Serial # N/A

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
~~CAL ICV~~ CCV		2-9-12	18:45	22.17	8.710	3.30-8.70	37.8%-100.0%	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
~~CAL ICV~~ CCV		2-9-12	18:35	1,413	8809	3/12	1,430-1,413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
~~CAL ICV CCV~~		2-9-12	18:23	4.00	0110969	11/30/12	3.96-4.00	P F
~~CAL ICV CCV~~		2-9-12	18:27	7.00	1091860	8/30/13	6.67-7.00	P F
~~CAL ICV CCV~~		2-9-12	18:31	10.00	2101326	7/12	10.59-10.08	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
~~CAL ICV CCV~~		2-9-12	18:38	229	1061713	6/30/12	230.7-229.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV	N/A		P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHG2 Project #: ~~F18~~ FR1651 Field Personnel: D. Sizemore

Water Quality Meter - Model/Serial #: YSI 556 Turbidimeter - Model/Serial # Hach 2100 Q

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		3/19/12	1621	25.81	8.143	R&3-8.14	100.2	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/19/12	1622	1.413	9773	12/12	1.723-1.419	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		3/19/12	1624	4	2106053	3/13	4.37-4.03	P F
CAL ICV CCV		↓	1623	7	2106104	8/13	7.13-7.02	P F
CAL ICV CCV		↓	1625	10	2013666	7/12	10.02-10.02	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/19/12	1626	240@25	3354	6/16	232.0-239.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV	3/19/12	1	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	3/19/12	19.01-20.0	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRMR Project #: FR1681 Field Personnel: D. Silamore

Water Quality Meter - Model/Serial #: YSI 556 Turbidimeter - Model/Serial # HACH 2100Q 21090

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		3/20/12	649	20.39	9.021	9.45-9.03	100.4	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/20/12	649	1.413	9.373	12/12	1.323-1.419	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		3/20/12	653	4	2106053	5/13	4.11-4.00	P F
CAL ICV CCV		↓	652	7	2109104	8/13	7.23-7.01	P F
CAL ICV CCV		↓	655	10	2107366	7/12	10.09-10.02	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/20/12	702	240 @ 25	3354	6/16	240.0-240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std 1 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV	3/20	1.0	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	3/20	19.6-20.0	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CPHE / FR1681 Project #: FR1681 Field Personnel: L. Petty (Geosyntec)

Water Quality Meter - Model/Serial #: Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV CCV		3/19/12	0930	20.62	8.985	8.921	100.03	(P) F
CAL (ICV) (CCV)		3/20/12	0750	22.22	8.710	8.825	100.01	(P) F
(CAL) ICV CCV		↓	↓	22.22	8.710	8.776	100.04	P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV CCV		3/19/12	0900	1.413	9084	7-12-12	1.438	(P) F
CAL (ICV) (CCV)		3/20/12	0740	1.413			1.362	(P) F
(CAL) ICV CCV		↓	0745				1.372	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV CCV		3-19-12	0907	4.00	21010053	5-2013	4.158	P (F)
(CAL) ICV CCV		↓	↓	7.00	21001037	12-12	6.946	(P) F
(CAL) ICV CCV		↓	↓	10.00	21013666	7-2012	9.945	(P) F
(CAL) ICV CCV		↓	↓	7.00	21001037	12-2012	7.03	(P) F
CAL (ICV) (CCV)		3-20-12	0750	7.00	21001037	12-2012	7.09	(P) F
(CAL) ICV CCV		↓	↓	~~10.00~~	↓	↓	7.00	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV CCV		~~3-19-12~~	0900	240	2981	01-2016	229	P (F)
(CAL) ICV CCV		3-19-12	0905	240	2981	01-16	241.5	(P) F
CAL (ICV) (CCV)		3-20-12	0745	↓	↓	↓	223.0	P F
(CAL) ICV CCV		↓	0747	↓	↓	↓	240.1	P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std 1 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
(CAL) ICV CCV	3-20-12	0.72	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	3-20-12	20.1	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV	3-20-12	95	(P) F
CAL ICV CCV	3-20-12		P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV	3-20-12	816	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: KSC NASA Project #: FR1681 Field Personnel: L Petty / Geosyntec

Water Quality Meter - Model/Serial #: Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria: +/-0.3mg/L			
CAL (ICV) (CCV)		3-21-12	0600	20.0	9.092	9.321	100.5	P F
CAL ICV CCV		↓	↓	20.5	9.092	9.320	100.4	P F
CAL (ICV) (CCV)		3-22-12	0500	21.1	9.074	9.052	100.2	P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) (CCV)		3-21-12	0600	1.413	9084	7-12-12	1.383	P F
CAL (ICV) CCV		↓	↓	↓	↓	↓	1.407	P F
CAL (ICV) (CCV)		3-22-12	0500	1.413	9084	7-12-12	1.392	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) (CCV)		3-20-12	0750	4.00	2040053	05-2013	4.19	P F
CAL ICV CCV		↓	↓	↓	↓	↓	3.99	P F
CAL ICV CCV		↓	↓	10.00	2101346	7-2012	9.91	P F
CAL ICV CCV		↓	↓	10.00	↓	↓	9.98	P F
CAL (ICV) (CCV)		3-21-12	0600	7.00	2101037	12-12	6.94	P F
CAL (ICV) (CCV)		↓	↓	4.00	2040253	5-2013	3.0	P F
(ICV) (CCV)				10.00	2101346	7-2012	9.98	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) (CCV)		3-21-12	0600	240	2981	1-2016	240.1	P F
CAL (ICV) CCV		↓	↓	↓	↓	↓	240.0	P F
CAL ICV CCV		3-22-12	0500	240	2981	1-2016	239.1	P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std 7 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL (ICV) (CCV)	3-21-12	0.58	P F
CAL ICV CCV	3-21-12	0.58	P F
CAL (ICV) (CCV)	3-22-12	0.60	P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL (ICV) (CCV)		21.4	P F
CAL ICV CCV			P F
CAL (ICV) (CCV)	3-21-12	21.4	P F
CAL ICV CCV	3-21-12	20.8	P F
CAL (ICV) (CCV)	3-22-12	20.1	P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8.5%	
CAL (ICV) (CCV)	3-21-12	101	P F
CAL ICV CCV	3-21-12	101	P F
CAL (ICV) (CCV)	3-22-12	100	P F
CAL (ICV) CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			

>100 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL (ICV) (CCV)	3-21-12	809	P F
CAL ICV CCV	3-21-12	812	P F
CAL (ICV) (CCV)	3-22-12	827	P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: KSC - CRAFT Project #: 321681 Field Personnel: Petty / Geosyntec

Water Quality Meter - Model/Serial #:

Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV CCV		3-22-12	0800	10.00	2101366	7-2012	9.96	P F
CAL ICV CCV		↓	↓	7.00	2101027		7.02	P F
CAL ICV CCV				4.00	2106053		3.98	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
							Geosyntec Acceptance Criteria: +/- 5%	
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

6/23/2009

Geosyntec Consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: Field Personnel: M. Stackhouse

Water Quality Meter - Model/Serial #: 4SI556MPS 10M100152 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria: +/-0.2mg/L			
CAL (ICV) CCV		10/1/12	1740	28.24	7.00 / 11.73	7.73	99.9	P F
CAL ICV (CCV)		10/2/12	1830	25.5	8.188	8.15	99.5	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		10/1/12	1755	1.413	9569	3/27/2013	1.429 / 1.413	P F
CAL (ICV) CCV		10/2/12	1842	"	"	"	1.410	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		10/1/12	1746	4.00	2110380	Sep 2013	3.96 / 4.00	P F
CAL (ICV) CCV		↓	↓	7.00	2105403	04-2013	0.99 / 7.02	P F
CAL (ICV) CCV		↓	↓	10.0	2111265	Apl 2013	9.95 / 10.02	P F
CAL ICV (CCV)		10/2/12	1836	4.00	2110380	Sep 2013	4.11	P F
CAL ICV (CCV)		↓	↓	7.00	2105403	04-2013	7.18	P F
CAL ICV (CCV)		↓	↓	10.00	2111265	Apl 2013	10.15	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV CCV		10/1/12	1759	240	3717	11-2016	240.8 / 240.0	P F
(CAL) ICV (CCV)		10/2/12	1846	"	"	"	238.8	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: M. Stackhouse

Water Quality Meter - Model/Serial #: 45I 556MPS 10M100152 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		10/3/12	2032	24.32	8.371	8.35	99.8	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		10/3/12	2038	1.413	9569	3/27/2013	~~1.46~~ 1.390	(P) (P)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		10/3/12	2042	4.00	2110380	Sep 2013	4.14	(P) F
(CAL) ICV (CCV)		↓	↓	7.00	2105403	Jul-2013	~~7.08~~ 7.07	(P) F
(CAL) ICV (CCV)				10.0	2111265	Apl 2013	10.17	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		10/3/12	2058	240	3717	11-2016	~~253~~ 249	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CHRL Project #FR Field Personnel: Rachel Donahue

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10M100152 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		10/5/12	620	24.25	8.317	9.27→8.30	111→99.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		10/5/12	705	1.413	9373	12/20/12	1.830→1.418	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		10/5/12	932	7.0	10910960	8/30/13	7.24→7.00	P F
CAL ICV CCV		↓	↓	4.0	22022647	4-2014	4.31→4.00	P F
CAL ICV CCV		↓	↓	10.0	0122799	12/30/12	9.86→9.99	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		10/5/12	717	240 @ 25	3159	3/2016	240.0→240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments: _____

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site CRHE | Project # FR1681 | Field Personnel Crystal Towns

Water Quality Meter - Model/Serial # YSI 556 MPS / 10C100199 | Turbidimeter - Model/Serial # NA

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		3/18/13	0828	20.7	8.968	8.96	99.8	P F
CAL ICV (CCV)		3/18/13	1050	24.3	8.371	8.34/8.36	99.8/100.2	P F
CAL ICV CCV		3/19/13	1521	20.2	7.800	8.03/100.2	103.1/7.80	P F
CAL ICV (CCV)		3/20/13	1617	22.5	8.660	8.49/8.65	101.2/99.9	P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		3/18/13	0903	1.413	10115	1/14/14	1.411	P F
CAL ICV (CCV)		3/18/13	1851	1.413	"	"	1.265/1.412	P F
CAL ICV (CCV)		3/19/13	1523	1.413	"	"	1.825/1.413	P F
CAL ICV (CCV)		3/20/13	1618	1.413	"	"	1.320/1.413	P F
CAL ICV (CCV)		3/21/13	1732	1.413	"	"	1.460/1.413	P F
CAL ICV (CCV)		3/22/13	1635	1.413	"	"	1.274	P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		3/18/13	0859	4.0	2210176	9/14	4.00	P F
CAL (ICV) CCV		"	0900	7.0	1209172	9/14	7.00	P F
CAL (ICV) CCV		"	0901	10.0	2207302	1/14	10.00	P F
CAL ICV (CCV)		3/18/13	1852	4.0	2210176	9/14	4.23/4.00	P F
CAL ICV (CCV)		"	1857	7.0	1209172	9/14	6.86/7.00	P F
CAL ICV (CCV)		"	1859	10.0	2207302	1/14	10.08/10.00	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		3/18/13	0904	240	4761	7/17	240.1	P F
CAL ICV (CCV)		3/18/13	1901	240	"	"	233.3/240.0	P F
CAL ICV (CCV)		3/19/13	1529	240	"	"	231.0/240.0	P F
CAL ICV (CCV)		3/20/13		240	"	"	231.0/240.0	P F

Specific Conductance Probe Cleaned? Yes (No) | Dissolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1 See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7 and a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR-1681 | Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10C100199 | Turbidimeter - Model/Serial #: NA

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		3/21/13	1623	19.3	2.229	8.35/9.22	90.1/99.8	(P) F
CAL ICV (CCV)		3/22/13	1628	23.7	8.466	9.34	110.2	P (F)
CAL ICV CCV		3/25/13	0725	18.8	9.314	9.31	99.6	(P) F
CAL ICV (CCV)		3/25/13	1601	26.5	8.040	5.08/8.06	63.3/100.0	(P) (F)

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
~~CAL ICV CCV~~		~~3/22/13~~	~~36~~	~~1.413~~	~~10115~~	~~1/14/14~~		P F
CAL ICV CCV		3/25/13	0733	1.413	10115	1/14/14	1.413	(P) F
CAL ICV (CCV)		3/25/13	1604	1.413	10115	1/14/14	1.623/1.413	(P) F
CAL ICV CCV		3/26/13	1709	1.413	10115	1/14/14	1.210/1.413	(P) F
CAL ICV (CCV)		3/27/13	1906	1.413	10115	1/14/14	1.105/1.414	(P) F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		3/19/13	1524	4.0	2210176	9/14	4.02/4.00	(P) F
CAL ICV (CCV)		"	1526	7.0	1209172	9/14	6.91/7.00	(P) F
CAL ICV (CCV)		"	1527	10.0	2207302	9/14	10.02/10.00	(P) F
CAL ICV (CCV)		3/26/13	1620	4.0	2210176	9/14	4.05/4.00	(P) F
CAL ICV (CCV)		"	1621	7.0	1209172	9/14	6.94/7.00	(P) F
CAL ICV (CCV)		"	1622	10.0	2207302	9/14	10.12/10.00	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		3/21/13	1738	240	4761	7/17	258.0/240.0	(P) (F)
CAL ICV (CCV)		3/22/13	1642	240	4761	7/17	221.3	P (F)
CAL ICV CCV		3/25/13	0741	240	4761	7/17	240.1	(P) F
CAL ICV (CCV)		3/25/13	1616	240	4761	7/17	223.2/240.0	(P) (F)

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. Always start with pH 7 and a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR16681 | Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10C100199 | Turbidmeter - Model/Serial #: NA

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		3/26/13	1707	17.2	9.625	9.80/9.62	102.0/100.0	(P) F
(CAL) ICV CCV		3/27/13	1904	19.60	9.165	9.23/9.17	101.5/100.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/26/13	0734	4.0	2210176	9/14	4.00	(P) F
CAL ICV CCV		"	0737	7.0	1209172	9/14	7.01	(P) F
CAL ICV CCV		"	0738	10.0	2201302	9/14		(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		3/21/13	1733	4.0	2210176	9/14	4.04/4.00	(P) F
CAL ICV (CCV)		"	1736	7.0	1209172	9/14	6.82/7.00	(P) F
CAL ICV (CCV)		"	1739	10.0	2201302	9/14	10.31/10.00	(P) (F)
CAL ICV (CCV)		3/22/13	1637	4.0	2210176	9/14	4.09	(P) F
CAL ICV (CCV)		"	1638	7.0	1209172	9/14	6.86	(P) F
CAL ICV (CCV)		"	1640	10.0	2201302	9/14	9.97	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		3/26/13	1721	240	4761	7/17	258.0/240.1	(P) (F)
(CAL) ICV (CCV)		3/27/13	1916	240	4761	7/17	244.3/240	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10C100199 | Turbidimeter - Model/Serial #: NA

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		3/21/13	1623	19.3	9.229	8.35/8.22	90.1/89.8	P F
CAL ICV (CCV)		3/22/13	1628	23.7	8.466	9.34	110.2	P F
CAL ICV CCV		3/25/13	0725	18.8	9.314	9.31	99.6	P F
CAL ICV (CCV)		3/25/13	1601	26.5	8.040	5.08/8.06	63.3/100.8	P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
~~CAL ICV CCV~~		~~3/22/13~~	~~36~~	~~1.413~~	~~10115~~	~~1/14/14~~		P F
CAL ICV CCV		3/25/13	0733	1.413	10115	1/14/14	1.413	P F
CAL ICV (CCV)		3/25/13	1604	1.413	10115	1/14/14	1.623/1.413	P F
CAL ICV CCV		3/26/13	1709	1.413	10115	1/14/14	1.210/1.413	P F
CAL ICV (CCV)		3/27/13	1906	1.413	10115	1/14/14	1.105/1.414	P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		3/19/13	1524	4.0	2210176	9/14	4.02/4.00	P F
CAL ICV (CCV)		"	1526	7.0	1209172	9/14	6.91/7.00	P F
CAL ICV (CCV)		"	1527	10.0	2201302	9/14	10.02/10.00	P F
CAL ICV (CCV)		3/26/13	1620	4.0	2210176	9/14	4.05/4.00	P F
CAL ICV (CCV)		"	1621	7.0	1209172	9/14	6.94/7.00	P F
CAL ICV (CCV)		"	1622	10.0	2201302	9/14	10.12/10.00	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		3/21/13	1738	240	4761	7/17	258.0/240.0	P F
CAL ICV (CCV)		3/22/13	1642	240	4761	7/17	221.3	P F
CAL ICV CCV		3/25/13	0741	240	4761	7/17	240.1	P F
CAL ICV (CCV)		3/25/13	1616	240	4761	7/17	223.2/240.0	P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings - always start with pH 7 and a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append a sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Crystal Toons

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10C100199 | Turbidimeter - Model/Serial #: NA

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		3/26/13	1707	17.2	9.625	9.80/9.62	102.0/100.0	P F
CAL ICV CCV		3/27/13	1904	19.60	9.165	9.23/9.17	101.5/100.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/26/13	0936	4.0	221076	9/14	4.06	P F
CAL ICV CCV		"	0937	7.0	1209172	9/14	9.01	P F
CAL ICV CCV		"	0938	10.0	2207302	9/14		P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		3/21/13	1733	4.0	221076	9/14	4.04/4.00	P F
CAL ICV CCV		"	1736	7.0	1209172	9/14	6.82/7.00	P F
CAL ICV CCV		"	1739	10.0	2207302	9/14	10.31/10.00	P F
CAL ICV CCV		3/22/13	1637	4.0	221076	9/14	4.09	P F
CAL ICV CCV		"	1638	7.0	1209172	9/14	6.86	P F
CAL ICV CCV		"	1640	10.0	2207302	9/14	9.97	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		3/26/13	1721	240	4761	7/17	258.0/240.0	P F
CAL ICV CCV		3/27/13	1916	240	4761	7/17	244.3/240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes / No | Dissolved Oxygen membrane Changed? Yes / No

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings: always start with pH 7 and add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10C100199 Turbidimeter - Model/Serial #: N/A

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		3/26/13						P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		3/25/13	0956	4.0	22/0176	9/14	4.00	P F
CAL ICV CCV		"	0737	7.0	1209172	9/14	7.01	P F
CAL ICV CCV		"	0736	10.0	2207302	9/14	10.00	P F
CAL ICV CCV		3/25/13	1610	4.0	22/0176	9/14	4.27/4.00	P F
CAL ICV CCV		"	1612	7.0	1209172	9/14	6.55/7.00	P F
CAL ICV CCV		"	1614	10.0	2207302	9/14	10.60/10.00	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria +/- 5%		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes / No Disolved Oxygen membrane Changed? Yes / No

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 and a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a 'J' qualifier

Comments

Geosyntec Consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10C100199 Turbidimeter - Model/Serial #: NA

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		3/26/13	1112	4.0	2210176	9/14	4.85/4.01	P F
CAL ICV CCV		"	1115	7.0	1209172	9/14	5.93/7.00	P F
CAL ICV CCV		"	1116	10.0	2207302	9/14	12.14/10.00	P F
CAL ICV CCV		3/27/13	1908	4.0	2210176	9/14	4.00/4.00	P F
CAL ICV CCV		"	1911	7.0	1209172	"	6.38/7.00	P F
CAL ICV CCV		"	1914	10.0	2207302	"	10.67/10.04	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. always start with pH 7 and a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Claire Osborn

Water Quality Meter - Model/Serial #: 556 MPS / 10C100199 Turbidimeter - Model/Serial #: —

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		3/28/13	1845	26.78	7.997	7.06 / 7.98	88.2 / 100	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		3/28/13	1843	1.413	10115	1/14/14	2.109 / 1.378	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		3/28/13	1850	pH7	1209172	9/2014	6.68 / 7.01	P (F)
(CAL) ICV (CCV)			1852	pH4	1210176	9/2014	4.38 / 3.99	P (F)
(CAL) ICV (CCV)			1858	pH10	2207302	1/2014	10.16 / 10.0	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
				240@25		Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		3/28/13	1840	239 @ 30.5	4761	7/2017	160.7 / 223.9	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: combined CCV & CAL @ one time. Knew when completed ccv on 3/29/13 it would be w/i 24 hours

all parameters passed CAL. pH & ORP failed CCV.

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Claire Osborn

Water Quality Meter - Model/Serial #: 556 MPS/10C100199 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		3/29/13	1520	24.60	8.325	7.88	94.8	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		3/29/13	1515	1.413	10115	1/14/2017	1.415	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		3/29/13	1500	pH4	2210176	9/2014	4.37	P (F)
CAL ICV (CCV)		1	1505	pH7	1209172	9/2014	7.05	(P) F
CAL ICV (CCV)		1	1507	pH10	2207302	9/2014	10.39	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		3/29/13	1510	220 @ 25	4761	7/2017	206.1	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS S/N 03B0715AC Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		04/01/13	07:40	21.6	8.812	8.67/8.85	98.4/100	(P) F
(CAL) ICV (CCV)		04/01/13	18:22	24.2	8.350	8.20/8.39	99.5/100.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		04/01/13	07:33	1.413	10023	11/12/13	1.398/1.413	(P) F
(CAL) ICV (CCV)		04/01/13	18:14	1.413	10023	11/12/13	1.426/1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		04/01/13	07:25	7.00	2208038	07/14	6.97/7.00	(P) F
(CAL) (ICV) CCV		04/01/13	07:27	4.00	2210176	09/14	4.09/4.00	(P) F
(CAL) (ICV) CCV		04/01/13	07:30	10.00	2207302	01/14	9.91/10.00	(P) F
CAL ICV (CCV)		04/01/13	18:04	7.00	2208038	07/14	7.16	(P) F
(CAL) ICV (CCV)		04/01/13	18:06	4.00	2210176	09/14	3.84/4.00	P (F)
(CAL) ICV (CCV)		04/01/13	18:08	10.00	2207302	01/14	9.74/10.00	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		04/01/13	07:36	240@25	4761	07/17	236.7/240.1	(P) F
(CAL) ICV (CCV)		04/01/13	18:17	240@25	4761	07/17	237.1/240	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Dissolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1 - See Table FS 2200-2 on the back of this form

ICAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (i.e., if readings are in the 400's a 447 mS/cm standard or 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings (i.e., start with pH 7 and add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria, then append sample results with an 'J' qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS SN03B0715AC | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		04/02/13	0728	21.4	8.246	9.43/8.85	106/100	(P) F
(CAL) ICV (CCV)		04/02/13	1812	26.3	8.070	7.471	92.6/100.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)[1]		04/02/13	0722	1.413	10023	11/12/13	1423	(P) F
(CAL) (ICV) CCV		04/02/13	1805	1.413	10023	11/12/13	1.470/1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		04/02/13	0715	7.00	2208038	07/14	7.04	(P) F
CAL ICV (CCV)		04/02/13	0717	4.00	220176	04/14	4.08	(P) F
CAL ICV (CCV)		04/02/13	0719	10.00	2207302	01/14	9.98	(P) F
(CAL) (ICV) CCV		04/02/13	1758	7.00	2208038	07/14	7.11/6.99	(P) F
(CAL) (ICV) CCV		04/02/13	1800	4.00	220176	04/14	4.02/4.01	(P) F
(CAL) (ICV) CCV		04/02/13	1802	10.00	2207302	01/14	9.95/9.99	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		04/02/13	0725	240 @ 25	4761	07/17	243/240	(P) F
(CAL) (ICV) CCV		04/02/13	1807	240 @ 25	4761	07/17	246.0/240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See **Table FS 2200-2** on the back of this form.

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow at least one hour for dissolved oxygen sensor to equilibrate during air calibration.
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless starting with DI water, then one standard or 0.1 mS/cm is acceptable).
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7 and add a third calibration point if needed (i.e. pH > 7).
If you have failed to calibrate within SOP acceptance criteria then append a sample results with a "J" qualifier.

Comments: _____

Geosyntec consultants

WQ Cal Form (Version 1)

6/23/2009

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS S/N 13B0715AC | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		04/03/13	0722	21.4	8.846	8.61	97.3	(P) F
CAL ICV (CCV)		04/03/13	1717	25.6	8.173	8.11	99.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		04/03/13	0717	1.413	10023	11/12/13	1.421	(P) F
CAL ICV (CCV)		04/03/13	1709	1.413	10023	11/12/13	1.389	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		04/03/13	0710	7.00	2208038	07/14	7.01	(P) F
CAL ICV (CCV)		04/03/13	0712	4.00	2210176	09/14	3.97	(P) F
CAL ICV (CCV)		04/03/13	0714	10.00	2201302	01/14	9.96	(P) F
CAL ICV (CCV)		04/03/13	1702	7.00	2208038	07/14	7.05	(P) F
CAL ICV (CCV)		04/03/13	1704	4.00	2210176	09/14	3.94	(P) F
CAL ICV (CCV)		04/03/13	1706	10.00	2201302	01/14	9.97	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		04/03/13	0719	240@25	4761	07/17	237.6	(P) F
CAL ICV (CCV)		04/03/13	1713	240@25	4761	07/17	246.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. Always start with pH 7 and a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christal Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS S/N 03B0715AC | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		04/04/13	0736	22.7	8.627	9.15/8.63	106.0/99.9	P (F)
CAL ICV (CCV)		04/04/13	1637	24.5	8.340	8.11	93.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL ICV (CCV)		04/04/13	0729	1.413	10023	11/12/13	1.394	(P) F
CAL ICV (CCV)		04/04/13	1629	1.413	10023	11/12/13	1.387	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV (CCV)		04/04/13	0722	7.00	2208038	07/14	7.02	(P) F
CAL ICV (CCV)		04/04/13	0724	4.00	2210176	09/14	3.99	(P) F
CAL ICV (CCV)		04/04/13	0726	10.00	2207302	01/14	9.94	(P) F
CAL ICV (CCV)		04/04/13	1622	7.00	2208038	07/14	7.07	(P) F
CAL ICV (CCV)		04/04/13	1624	4.00	2210176	09/14	4.04	(P) F
CAL ICV (CCV)		04/04/13	1626	10.00	2207302	01/14	9.97	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		04/04/13	0732 (EA)	240@25	4761	07/17	234.9	(P) F
CAL ICV (CCV)		04/04/13	1633	240@25	4761	07/17	234.7	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Dissolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
			Acceptance Criteria: +/- 10%
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
			Acceptance Criteria: +/- 8%
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
			Acceptance Criteria: +/- 6.5%
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
			Acceptance Criteria: +/- 5%
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during all calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. Always start with pH 7 and a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christ/Schlatter

Water Quality Meter - Model/Serial #: YSI 556 MPS S/N 03B0715C | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		04/05/13	0811	22.1	9.074	9.16	103.9	P F
CAL ICV (CCV)		04/08/13		24.2	8.357	8.102	96.6	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		04/05/13	0806	1.413	10023	11/12/13	1.416	P F
CAL ICV (CCV)		04/05/13	1619	1.413	10023	11/12/13	1.421	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0 2 SU		
CAL ICV (CCV)		04/05/13	0758	7.00	2208038	07/14	7.00	P F
CAL ICV (CCV)		04/05/13	0801	4.00	2210176	09/14	3.96	P F
CAL ICV (CCV)		04/05/13	0803	10.00	2207302	01/14	10.01	P F
CAL ICV (CCV)		04/05/13	1613	7.00	2208038	07/14	7.02	P F
CAL ICV (CCV)		04/05/13	1615	4.00	2210176	09/14	4.01	P F
CAL ICV (CCV)		04/05/13	1617	10.00	2207302	01/14	9.98	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		04/05/13	0808	240.25	4761	07/17	255.3 / 240	P (F)
CAL ICV (CCV)		04/05/13	1622	240.25	4761	07/17	244.7	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) | Dissolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

Comments:

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Claire Osborn

Water Quality Meter - Model/Serial #: 06C2653 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		5/20/13	820	24.58	8.325	8.26	99.4	(P) F
CAL (ICV) (CCV)		5/21/13	740	22.99	8.578	8.77	102.3	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL (ICV) CCV		5/20/13	806	1.0	C256713	11/13	1.014	(P) F
(CAL) (ICV) (CCV)		5/21/13	738	1.0	↓	↓	1.042/1.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL (ICV) CCV		5/20/13	800	7	C358930	8/28/14	7.06	(P) F
CAL (ICV) CCV		5/21/13	801	4	C255426	2/27/15	4.14	(P) F
CAL (ICV) CCV		5/20/13	802	10	C256018	10/3/14	9.83	(P) F
CAL (ICV) (CCV)		5/21/13	730	4			4.18	(P) F
CAL (ICV) (CCV)		↓	732	7	see above		7.00	(P) F
CAL ICV (CCV)		↓	734	10			9.88	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		5/20/13	804	~~230.6~~ 230.7 ~~25.3~~ 25.15	C359470	11/29/13	~~223.7~~ 233.5	(P) F
CAL (ICV) (CCV)		5/21/13	736	22.89, 233.9	↓	↓	237.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHF Project #: FR1687 Field Personnel: Claire Osborn

Water Quality Meter - Model/Serial #: 06C2653 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) (CCV)		5/24/13	720	22.7	8.627	9.40 → 8.58		(P) F
CAL ICV CCV		1	1635	24.9	8.279	8.18	98.81	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) (CCV)		5/24/13	713	1.000	C256713	11/13	1.004	(P) F
CAL ICV CCV		1	1630	1	1	1	1.007	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) (CCV)		5/24/13	705	pH 4	C255426	8/28/14	4.12	(P) F
CAL (ICV) (CCV)		1	708	pH 7	C358930	3/27/15	6.92	(P) F
CAL (ICV) (CCV)			710	pH 10	C256078	10/3/14	9.90	(P) F
CAL ICV (CCV)		5/24/13	1622	pH 4		see above	4.05	(P) F
CAL ICV (CCV)		1	1624	pH 7			6.93	(P) F
CAL ICV (CCV)			1626	pH 10			9.95	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		5/24/13	712	234.8 @ 22.12°C	C359440	11/28/13	233.7	(P) F
CAL (ICV) (CCV)		1	1628	236.8	1	1	233.1	(P) F
CAL ICV (CCV)								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CLHF Project #: FA1681 Field Personnel: Claire Osborn

Water Quality Meter - Model/Serial #: 06C2653 Turbidimeter - Model/Serial #: 06C2653

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		5/23/13	734	20.91	~~8.932~~ 20.91	8.94	100.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/23/13	730	1.0	C256713	11/13	0.995	P F
CAL ICV CCV							1.005	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		5/23	720	4	C255426	2/27/15	4.70/4.02	P F
CAL ICV CCV			722	7	C358130	2/27/15	7.10/7.00	P F
CAL ICV CCV		1	725	10	2A6213	7/2014	9.84/10.00	P F
CAL ICV CCV				4		above	4.19	P F
CAL ICV CCV				7	see		6.91	P F
CAL ICV CCV				10			9.95	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/23/13	728	24.2 ~~232.0~~ 25.2 ~~230.1~~	C359440	11/28/13	233.1	P F
CAL ICV CCV					1	1	230.9	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE/KSC Project #: FR1681/25*2 Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556MPS / SN 07J101410 Turbidimeter - Model/Serial #: N/A

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		6/3/13	0754	24.0	8.418	8.42	99.5	P F
CAL ICV (CCV)		6/4/13	0705	25.8	8.143	5.33/8.14	66.1/100.0	P F
CAL ICV (CCV)		6/4/13	1755	27.2	7.940	7.70/7.94	90.2/100.1	P F
CAL ICV (CCV)		6/5/13	1122	26.9	7.983	7.10	84.3	P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		6/3/13	0756	1.413	10239	3/20/14	1.414	P F
CAL ICV (CCV)		6/4/13	0708	1.413	10239	3/20/14	1.440/1.413	P F
CAL ICV (CCV)		6/4/13	1759	1.413	10239	3/20/14	1.462/1.413	P F
CAL ICV (CCV)		6/5/13	1124	1.413	10239	3/20/14	1.457	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		6/3/13	0758	7	2301297	12/2014	7.00	P F
CAL (ICV) CCV		"	0800	4	2302179	02/2015	3.99	P F
CAL (ICV) CCV		"	0801	10	2211689	05/2014	10.00	P F
CAL ICV (CCV)		6/4/13	0709	7	2301297	12/2014	7.04/7.00	P F
CAL ICV (CCV)		"	0711	4	2302179	02/2015	4.16/3.98	P F
CAL ICV (CCV)		"	0714	10	2301297	05/20 14	10.04/10.01	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		6/3/13	0807	240	4761	07/2017	240.0	P F
CAL ICV (CCV)		6/4/13	0715	240	4761	07/2017	233.3/240.3	P F
CAL ICV (CCV)		6/4/13	1807	240	4761	07/2017	238.4/240.1	P F
CAL ICV (CCV)		6/5/13	1139	240	4761	07/2017	242.8	P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE / KSC Project #: FR1681255 Field Personnel: Crystal Towns

Water Quality Meter - Model/Serial #: YSI 556MPS / SN 07J101410 Turbidimeter - Model/Serial #: N/A

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV CCV		6/4/13	1802	7	2301297	12/2014	7.08/7.00	P F
CAL ICV CCV		"	1804	4	2302179	02/2015	4.13/4.01	P F
CAL ICV CCV		"	1805	10	2211639	05/2014	10.11/10.00	P F
CAL ICV CCV		6/5/13	1132	7	2301297	12/2014	7.11	P F
CAL ICV CCV		"	1135	4	2302179	02/2015	4.01	P F
CAL ICV CCV		"	1136	10	2211639	05/2014	10.23	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
							Geosyntec Acceptance Criteria: +/- 5%	
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

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Water Quality Instrument Calibration Form

Project/Site: CARF Project #: FR1691 Field Personnel: Rachel Donahue

Water Quality Meter - Model/Serial#: 451 556 MPS/05023713 KK Turbidimeter - Model/Serial#: Hach 2100Q/10110C006399

Dissolved Oxygen (FDEP SOP FT 1500)	Date	Time	Temp (°C)	Saturation (mg/L)*	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria:+/-0.3 mg/L		
CAL ICV CCV	7-11-13	810	20.98	8.950	7.65 8.95	85.4 99.8	P F
CAL ICV CCV	7-12-13	755	20.40	9.021	9.64	106.9	P F
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance (FDEP SOP FT 1200)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (mS/cm)	Reading (mS/cm)	Pass or Fail
Specific Conductance Probe Cleaned? Yes (No)					Acceptance Criteria: +/- 5%		
CAL ICV CCV	7-11-13	855	10239	3-2014	1.413	1.413 1.413	P F
CAL ICV CCV	7-12-13	831	10239	3-2014	1.413	1.420	P F
CAL ICV CCV							P F
CAL ICV CCV							P F

pH (FDEP SOP FT 1100)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (SU)	Reading (SU)	Pass or Fail
					Acceptance Criteria: +/- 0.2 SU		
CAL ICV CCV	7-11-13	826	2202287	04-2014	4.0	3.99 4.00	P F
CAL ICV CCV	↓	↓	2304619	03-2015	10.0	10.15 10.00	P F
CAL ICV CCV	↓	↓	2264659	03-2015	7.0	7.06 7.00	P F
CAL ICV CCV	7-12-13	810	2202287	04-2014	4.0	4.07	P F
CAL ICV CCV	↓	↓	2304619	03-2015	10.0	9.94	P F
CAL ICV CCV	↓	↓	2304659	03-2015	7.0	7.19	P F

ORP (FDEP SOP N/A)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (mV @ Temp °C)	Reading (mV)	Pass or Fail
Dissolved Oxygen Membrane Changed? Yes (No)					Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV	7-11-13	901	5245	11/2017	240@25	232-248	P F
CAL ICV CCV	7-12-13	822	5245	11/2017	240@25	233.1	P F
CAL ICV CCV							P F
CAL ICV CCV							P F

Turbidity 0.1-10 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%		
CAL ICV CCV	7-11-13	10	9.93	P F
CAL ICV CCV	7-12-13	10	9.58	P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity 11-40 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%		
CAL ICV CCV	7-11-13	20	20.5	P F
CAL ICV CCV	7-12-13	20	20.4	P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity 41-100 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%		
CAL ICV CCV	7-11-13	100	98.6	P F
CAL ICV CCV	7-12-13	100	101	P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity >100 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%		
CAL ICV CCV	7-11-13	800	775	P F
CAL ICV CCV	7-12-13	800	776	P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Notes:

CAL = Initial Calibration
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
* See Table FS 2200-2 on the back of this form

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings <0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if neede
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec Consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: WTW 556 MPS #13D101776 | Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		05/29/14	7:17	25.6	8.73	10.07/8.17	123.2/100.1	P F
CAL ICV (CCV)		05/29/14	18:38	29.4	7.638	6.38	83.8	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		05/29/14	7:06	1.413	10601	09/20/14	1.408/1.413	(P) F
CAL ICV (CCV)		05/29/14	18:32	1.413	10601	09/20/14	1535	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		05/29/14	6:57	7.00	2312885	12/15	7.23/7.00	(P) F
(CAL) ICV (CCV)		05/29/14	7:01	4.00	2310A78	10/15	4.02/4.00	(P) F
(CAL) ICV (CCV)		05/29/14	7:04	10.00	2312574	05/15	9.83/10.00	(P) F
CAL ICV (CCV)		05/29/14	18:22	7.00	2312885	12/15	7.16	(P) F
CAL ICV (CCV)		05/29/14	18:24	4.00	2310A78	10/15	4.11	(P) F
CAL ICV (CCV)		05/29/14	18:27	10.00	2312574	05/15	9.87	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		05/29/14	7:09	240.0	6448	07/18	236.0/240.0	(P) F
CAL ICV (CCV)		05/29/14	18:34	240.0	6448	07/18	232.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Mike Buechan

Water Quality Meter - Model/Serial #: YSI 556 11J102412 Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/12/14	0646	22.2	8.710	11.51/6.46	132.0/74.3	P (F)
(CAL) (ICV) CCV		↓	0652	22.3	8.693	6.31/8.47	72.6/99.8	(P) F
CAL ICV (CCV)		6/12/14	1754	28.1	7.814	6.86	87.7	P (F)
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/12/14	0707	1.413	10875	3/10/2015	1.332/1.413	(P) F
CAL ICV (CCV)		↓	1806	↓	↓	↓	1.506	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/12/14	0655	4.0	2310A98	10/2015	4.03/4.00	(P) F
(CAL) (ICV) CCV		↓	0658	7.0	2403637	02/2016	7.00/7.00	(P) F
(CAL) (ICV) CCV			0701	10.0	2312574	05/2015	10.00/10.00	(P) F
CAL ICV (CCV)		6/12/14	1800	4.0	2310A98	10/2015	4.02	(P) F
CAL ICV (CCV)			1802	7.0	2403637	02/2016	6.99	(P) F
CAL ICV (CCV)		↓	1804	10.0	2312574	10/2015	9.91	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/12/14	0712	240.0	7065	11/2018	246.0/240.0	(P) F
CAL ICV (CCV)		↓	1812	240.0	7065	11/2018	228.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec Consultants

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Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Mike Burcham

Water Quality Meter - Model/Serial #: YSI 556 MPS 11J102412 | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV CCV		6/11/14	0656	25.6	8.173	8.25/8.16	100.5/99.7	(P) F
CAL ICV (CCV)		↓	2005	24.69	8.309	7.28	87.5	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/11/14	0709	1.413	10375	3/10/2015	1.345/1.413	(P) F
CAL ICV (CCV)		↓	1951	↓	↓	↓	1.456	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/11/14	0700	4.0	2310A78	10/2015	3.96/4.00	(P) F
(CAL) (ICV) CCV		↓	0702	7.0	2403637	02/2016	7.05/7.00	(P) F
(CAL) (ICV) CCV			0704	10.0	2312574	05/2015	9.95/9.99	(P) F
CAL ICV (CCV)			1951	4.0	2310A78		4.17	(P) F
CAL ICV (CCV)			1953	7.0	2403637		7.05	(P) F
CAL ICV (CCV)			1956	10.0	2312574		10.01	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/11/14	0712	240.0	7065	11/2018	240.1/240.0	(P) F
CAL ICV (CCV)		↓	2001	↓	↓	↓	236.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings, always start with pH 7, add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Mike Burcham

Water Quality Meter - Model/Serial #: YSI 556MPS 11J102412 Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/10/14	0650	25.7	8.158	9.21/8.13	112.5/99.5	(P) F
CAL ICV (CCV)		↓	1858	31.2	7.404	6.22	83.8	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/10/14	0701	1.413	10875	3/10/2015	1.405/1.413	(P) F
CAL ICV (CCV)		↓	1907	1.413	10875	3/10/2015	1.496	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/10/14	0653	4.0	2310A78	10/2015	4.05/4.00	(P) F
(CAL) (ICV) CCV		↓	0656	7.0	2403637	02/2016	7.01/7.00	(P) F
(CAL) (ICV) CCV			0659	10.0	2312574	05/2015	9.95/9.99	(P) F
CAL ICV (CCV)		6/10/14 mb	1401	4.0	2310A78	10/2015	4.10	(P) F
CAL ICV (CCV)		↓	1403	7.0	2403637	02/2016	7.05	(P) F
CAL ICV (CCV)			1404	10.0	mb 2312574	05/2015	mb 9.98 9.98	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		6/10/14	0705	240.0	7065	11/2018	239.8/240.0	(P) F
CAL ICV (CCV)		↓	1910	240.0	7065	11/2018	231.5	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Mike Burchum

Water Quality Meter - Model/Serial #: YSI - 556 MPS 11J102412 Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/9/14	0752	26.4	8.055	6.67/8.05	82.3/99.9	(P) F
CAL ICV (CCV)		↓	1840	32.00	7.31	6.02	82.3	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/9/14	0737	1.413	10875	3/10/2015	1.480/1.515	P (F)
CAL (ICV) CCV			0738	↓	↓	↓ MB	1.514/1.515	P (P)
CAL (ICV) CCV			0746				~~1.507~~/1.505	(P) F
CAL ICV (CCV)		↓	1849	1.413	10875	3/10/2015	1.504 1.413	P (P)
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/9/14	~~0715~~ 0727	4.0	2310A78	Oct-2015	~~3.58~~ MB*	(P) F
CAL (ICV) CCV		↓	MB 0727 0731	7.0	2403637	02/2016	~~6.49~~ MB*	(P) F
CAL (ICV) CCV			~~0730~~ 0733	10.0	2312574	05-2015	*	(P) F
CAL ICV (CCV)			1842	4.0	2310A78	10/2015	4.09	(P) F
CAL ICV (CCV)		↓	1845	7.0	2403637	02/2016	7.04	(P) F
CAL ICV (CCV)			1847	10.0	2312574	05/2015	9.98	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/9/14	0742	240.0	7065	11/2018	235.8/240.0	(P) F
CAL ICV (CCV)		↓	1852	↓	↓	↓	233.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___ NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: * Initial reading + Cal values for pH: 4.0 - 3.84/4.00
7.0 - 7.13/7.80 10.0 - 9.95/9.99
Specific Conductance was initially calibrated incorrectly. See field notes.

Geosyntec consultants

Geosyntec Consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christal Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS 11J02412 | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		06/06/14	07:14	24.2	8.387	10.22/8.39	121.9/100.0	(P) F
CAL ICV (CCV)		↓	1700	~~25.3~~	~~7.55~~ MB	5.55	80%	P (F)
CAL ICV CCV					6.821*			P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
(CAL) ICV (CCV)		06/06/14	07:23	1.413	10875	03/10/15	1.482/1.413	(P) F
CAL ICV (CCV)		↓	1710	1.413	10875	03/10/15	1.401	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
(CAL) ICV (CCV)		06/06/14	07:15	7.00	2403637	02/16	7.05/7.00	(P) F
(CAL) ICV (CCV)		06/06/14	07:17	4.00	2310A78	10/15	4.20/4.00	(P) F
(CAL) ICV (CCV)		06/06/14	07:19	10.00	2312574	05/15	10.12/10.02	(P) F
CAL ICV (CCV)		↓	1702	4.00	2310A78	10/15	3.85	(P) F
CAL ICV (CCV)		↓	1705	7.00	2403637	02/16	6.96	(P) F
CAL ICV (CCV)		↓	1708	10.00	2312574	05/15	9.99	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
							Geosyntec Acceptance Criteria: +/- 5%	
(CAL) ICV (CCV)		06/06/14	07:27	240.0	7065	11/18	237.4/240.0	(P) F
CAL ICV (CCV)		↓	1714	240.0	7065	11/18	228.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: * DO saturation during CCV estimated using linear relationship from 20.2 to 20.9 °C

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS # 11L102412 | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		06/05/14	07:16	24.6	8.325	8.92/8.52	107.2/100.0	P F
CAL ICV CCV		06/05/14	17:02	30.8	7.456	7.87	105.6	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		06/05/14	07:26	1.413	10875	03/10/15	1.423/1.413	P F
CAL ICV CCV		06/05/14	17:12	1.413	10875	03/10/15	1.428	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		06/05/14	07:19	7.00	2403637	02/16	7.00/7.00	P F
CAL ICV CCV		06/05/14	07:21	4.00	2310A78	10/15	3.96/4.00	P F
CAL ICV CCV		06/05/14	07:23	10.00	2312574	05/15	9.94/9.99	P F
CAL ICV CCV		06/05/14	17:05	7.00	2403637	02/16	6.97	P F
CAL ICV CCV		06/05/14	17:07	4.00	2310A78	10/15	3.92	P F
CAL ICV CCV		06/05/14	17:10	10.00	2312574	05/15	9.71	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		06/05/14	07:28	240.0	7065	11/18	226.0/240.0	P F
CAL ICV CCV		06/05/14	17:15	240.0	7065	11/18	236.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings, always start with pH 7 and a third calibration point if needed (i.e. pH < 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a 'J' qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS #13D101776 | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		06/04/14	07:02	21.3	8.863	8.69/8.86	99.1/99.9	P F
CAL ICV CCV		06/04/14	17:34	28.6	7.745	7.45	96.2	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		06/04/14	07:18	1.413	10601	09/20/14	1.373/1.413	P F
CAL ICV CCV		06/04/14	17:43	1.413	10601	09/20/14	1474	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		06/04/14	07:06	7.00	2312885	12/15	7.30/7.00	P F
CAL ICV CCV		06/04/14	07:09	4.00	2310A78	10/15	4.15/3.95	P F
CAL ICV CCV		06/04/14	07:16	10.00	2312574	05/15	9.75/10.00	P F
CAL ICV CCV		06/04/14	17:36	7.00	2312885	12/15	7.19	P F
CAL ICV CCV		06/04/14	17:38	4.00	2310A78	10/15	3.90	P F
CAL ICV CCV		06/04/14	17:40	10.00	2312574	05/15	9.91	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		06/04/14	07:20	240.0	6448	07/18	246.0/240.0	P F
CAL ICV CCV		06/04/14	17:45	240.0	6448	07/18	244.7	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. always start with pH 7, add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS #13D101776 | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		06/03/14	07:01	24.7	8.309	8.49/8.30	102.3/100.	(P) F
CAL ICV (CCV)		06/03/14	17:21	26.5	8.040	8.52	81.0	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		06/03/14	07:19	1.413	10601	09/20/14	1.428/1.413	(P) F
CAL ICV (CCV)		06/03/14	17:37	1.413	10601	09/20/14	1.428	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		06/03/14	07:08	7.00	2312885	12/15	(7) ~~7.15~~ 7.11/7.00	P F
(CAL) ICV (CCV)		06/03/14	07:12	4.00	2310A78	10/15	3.84/3.99	(P) F
(CAL) ICV (CCV)		06/03/14	07:16	10.00	2312574	05/15	10.01/10.00	(P) F
CAL ICV (CCV)		06/03/14	17:22	7.00	2312885	12/15	6.94	(P) F
CAL ICV (CCV)		06/03/14	17:26	4.00	2310A78	10/15	4.13	(P) F
CAL ICV (CCV)		06/03/14	17:32	10.00	2312574	05/15	9.85	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		06/03/14	07:22	240.0	6448	07/18	238.8/240.0	(P) F
(CAL) ICV (CCV)		06/03/14	17:39	240.0	6448	07/18	237.6	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE | Project #: FR1681 | Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS #13D101776 | Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		06/02/14	07:09	25.1	8.248	8.34/8.24	101.2/99.9	(P) F
CAL ICV (CCV)		06/02/14	16:45	25.8	8.143	7.16	87.9	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		06/02/14	07:21	1.413	10601	09/20/14	1.431/1.443	(P) F
CAL ICV (CCV)		06/02/14	17:04	1.413	10601	09/20/14	1.477	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		06/02/14	07:13	7.00	2312885	12/15	7.20/7.00	(P) F
(CAL) ICV (CCV)		06/02/14	07:16	4.00	2310A78	10/15	4.06/4.00	(P) F
(CAL) ICV (CCV)		06/02/14	07:19	10.00	2312574	05/15	9.57/10.0	(P) F
CAL ICV (CCV)		06/02/14	16:50	7.00	2312885	12/15	7.15	(P) F
CAL ICV (CCV)		06/02/14	16:54	4.00	2310A78	10/15	3.98	(P) F
CAL ICV (CCV)		06/02/14	16:58	10.00	2312574	05/15	9.99	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		06/02/14	07:22	240.0	6448	07/18	238.1/240.0	(P) F
CAL ICV (CCV)		06/02/14	17:10	240.0	6448	07/18	238.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) | Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings. always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Christel Schulte

Water Quality Meter - Model/Serial #: YSI 556 MPS #13D101776 Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		05/30/14	07:05	23.7	8.466	7.62/8.46	90.0/100.0	(P) F
CAL ICV (CCV)		05/30/14	16:56	29.0	7.691	7.16	93.2	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		05/30/14	07:14	1.413	10601	09/20/14	1.394/1.412	(P) F
CAL ICV (CCV)		05/30/14	17:05	1.413	10601	09/20/14	1.481	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		05/30/14	07:06	7.00	2312885	12/15	7.20/7.00	(P) F
(CAL) ICV (CCV)		05/30/14	07:08	4.00	2310A78	10/15	4.06/4.00	(P) F
(CAL) ICV (CCV)		05/30/14	07:11	10.00	2312574	05/15	9.91/9.99	(P) F
CAL ICV (CCV)		05/30/14	16:58	7.00	2312885	12/15	7.20	(P) F
CAL ICV (CCV)		05/30/14	17:00	4.00	2310A78	10/15	4.08	(P) F
CAL ICV (CCV)		05/30/14	17:02	10.00	2312574	05/15	9.91	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		05/30/14	07:17	240.0	6448	07/18	241.9/240.0	(P) F
(CAL) ICV (CCV)		05/30/14	17:08	240.0	6448	07/18	229.8	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No[1]) Dissolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CBHE Project #: FR1681 Field Personnel: Mike Bu...

Water Quality Meter - Model/Serial #: YSI 556 MPS 12E 100521 Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
					8.848	Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		6/13/14	0705	21.07	~~7.928~~ mb	9.50/8.85	107/99.8	(P) F
CAL ICV (CCV)		6/13/14	1746	29.30	7.651	6.87	84.7	P (F)
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/13/14	0650	1.413	10601	9/20/2014	1.422/1.413	(P) F
CAL ICV (CCV)		6/13/14	1752	1.413	10601	9/20/2014	1.392	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		6/13/14	0640	4.0	2310A78	10/2015	4.07/4.00	(P) F
(CAL) (ICV) CCV		↓	0643	7.0	2312885	12/2015	7.05/7.00	(P) F
(CAL) (ICV) CCV		↓	0646	10.0	2312574	05/2015	9.86/9.98	(P) F
CAL ICV (CCV)		6/13/14	1750	4.0	2310A78	10/2015	4.07	(P) F
CAL ICV (CCV)		↓	1753	7.0	2312885	12/2015	6.92	(P) F
CAL ICV (CCV)		↓	1755	10.0	2312574	05/2015	9.78	P (F)

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		6/13/14	0657	240.0	6448	07/2018	246.0/240.0	(P) F
CAL ICV (CCV)		6/13/14	1800	240.0	6448	07/2018	234.4	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ____NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7, add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CBHE Project #: FR1691 Field Personnel: M. Burham

Water Quality Meter - Model/Serial #: YSI 556 MPS 06E545A6 Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL (ICV) CCV		9/29/14	07:06	25.70	8.158	8.04/8.16	98.5/100.0	P F
CAL ICV (CCV)		9/30/14	0654	23.17	8.546	8.30/8.54	101.7/99.9	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		9/29/14	0723	1.413	C468184	2/28/15	1.403/1.413	P F
CAL ICV (CCV)		9/30/14	0735	1.413	C468184	2/28/15	1.402/1.413	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL (ICV) CCV		9/29/14	0711	4.0	C469196	4/4/16	3.97/4.00	P F
CAL (ICV) CCV		↓	0714	7.0	C466928	1/9/16	7.06/7.00	P F
CAL (ICV) CCV		↓	0719	10.0	C256282	10/9/14	9.75/9.96	P F
CAL ICV (CCV)		9/30/14	0657	4.0	C469196	4/4/16	3.98/4.00	P F
CAL ICV (CCV)		↓	0701	7.0	C466928	1/9/16	7.11/7.00	P F
CAL ICV (CCV)		↓	0705	10.0	C256280	10/9/14	9.85/9.97	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL (ICV) CCV		9/29/14	0729	240@25	7168	12/2018	239.6/240.0	P F
CAL ICV (CCV)		9/30/14	0710	240@25	7168	12/2018	244.1/240.0	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE/FR1681 Project #: FR1681 Field Personnel: M. Buchan

Water Quality Meter - Model/Serial #: YSI 556 MPS 065595 AG Turbidimeter - Model/Serial # N/A

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) (ICV) CCV		9/22/14	0952	26.74	8.012	7.58/7.99	mB/99.8%	(P) F
(CAL) ICV (CCV)		9/23/14	0640	22.29	8.643	9.05/8.69	104.1/100.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		9/22/14	0810	1.413	C468184	2/28/2015	1.392/1.413	(P) F
(CAL) ICV (CCV)		9/23/14	0659	1.413	C468184	2/28/2015	1.403/1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) (ICV) CCV		9/22/14	0756	4.0	C469196	4/4/16	4.02/4.00	(P) F
(CAL) (ICV) CCV		↓	0800	7.0	C466920	1/9/16	7.13/7.00	(P) F
(CAL) (CCV) CCV		↓	0805	10.0	C256280	10/09/14	9.76/9.95	(P) F
CAL ICV (CCV)		9/23/14	0645	4.0	C469186	4/4/14	3.96/4.00	(P) F
CAL ICV (CCV)		↓	0650	7.0	C466920	1/9/16	7.12/7.00	(P) F
CAL ICV (CCV)		↓	0654	10.0	C256280	10/09/14	9.80/9.96	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) (ICV) CCV		9/22/14	0814	240.0 @ 25	7168	12/2018	233.5/240.0	(P) F
(CAL) ICV (CCV)		9/23/14	0703	240.0 @ 25	7168	12/2018	245.6/240.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: M. Burcham

Water Quality Meter - Model/Serial #: YSI 556 MPS 05595 AG Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		9/24/14	0653	24.46	8.340	8.22/8.34	184/99.9	(P) F
(CAL) ICV (CCV)		9/25/15		~~22.63~~ MB	~~8.482~~			P F
CAL ICV CCV		9/25/15	0715	23.3	8.434	8.35/8.43	189/99.9	(P) F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		9/24/14	0750	1.413	C468184	2/28/2015	1.404/1.413	(P) F
(CAL) ICV (CCV)		9/25/14	0732	1.413	C468184	2/28/2015	1.424/1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		9/24/14	0700	4.0	C469196	9/9/16	3.97/4.00	(P) F
(CAL) ICV (CCV)		↓	0704	7.0	C466920	1/9/16	7.08/7.00	(P) F
(CAL) ICV (CCV)		↓	0708 MB	10.0	C256280	10/09/14	9.74/9.96	(P) F
(CAL) ICV (CCV)		9/25/14	0720	4.0	C469196	9/9/16	3.97/4.00	(P) F
(CAL) ICV (CCV)		↓	0723	7.0	C466920	1/9/16	7.11/7.00	(P) F
(CAL) ICV (CCV)		↓	0727	10.0	C256280	10/09/14	9.80/9.96	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		9/24/14	0754	240@25	7168	12/2018	237.3/240.1	(P) F
(CAL) ICV (CCV)		9/25/14	0738	240@25	7168	12/2018	239.0/240.1	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e, pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRITE Project #: FR1681 Field Personnel: M. Burham

Water Quality Meter - Model/Serial #: YSI 556 MPS 06505951AG Turbidimeter - Model/Serial #

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
(CAL) ICV (CCV)		9/26/14	0708	24.60	8.325	8.24/8.32	94.0/100.2	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		9/26/14	0722	1.413	C468104	2/28/15	1.389/1.413	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
(CAL) ICV (CCV)		9/26/14	0711	4.0	C469196	4/4/16	4.0/4.00	(P) F
(CAL) ICV (CCV)		↓	0714	7.0	C466920	1/9/16	7.36/7.00	(P) F
(CAL) ICV (CCV)		↓	0718	10.0	C256280	10/9/14	9.84/9.98	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
(CAL) ICV (CCV)		9/26/14	0726	240@25	7168	12/2018	280.0/290.0	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7, add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments

Geosyntec consultants

Geosyntec

consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE KSC FL Project #: FR1681 Field Personnel: D. Siemon

Water Quality Meter - Model/Serial#: YSI 556 0502373 Turbidimeter - Model/Serial#:

Dissolved Oxygen (FDEP SOP FT 1500)	Date	Time	Temp (°C)	Saturation (mg/L)*	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria:+/-0.3 mg/L		
CAL ICV CCV	10/16/14	731	22.19	8.710	8.68-8.71	101.9-100.5	P F
CAL ICV CCV	11/11/14	629	22.46	8.595	9.03-8.60	105.3-101.0	P F
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance (FDEP SOP FT 1200)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (mS/cm)	Reading (mS/cm)	Pass or Fail
Specific Conductance Probe Cleaned? Yes (No)				5/16 J	Acceptance Criteria: +/- 5%		
~~CAL ICV CCV~~				240568	0.0		P F
CAL ICV CCV	11/10/14	733	7168	12/18	1.413	1.219-1.414	P F
CAL ICV CCV	11/11/14	630	"	"	"	1.112-1.413	P F
CAL ICV CCV							P F

pH (FDEP SOP FT 1100)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (SU)	Reading (SU)	Pass or Fail
					Acceptance Criteria: +/- 0.2 SU		
CAL ICV CCV	11/10/14	734	2415440	4/1/16	7	7.09-7.00	P F
CAL ICV CCV	↓	736	240568	5/16	4	4.09-4.01	P F
CAL ICV CCV	↓	739	2404751	10/15	10	10.15-10.01	P F
CAL ICV CCV	11/10/14	631				7.11-7.00	P F
CAL ICV CCV	↓	633	SAME			4.09-4.00	P F
CAL ICV CCV	↓	636				10.09-10.01	P F

ORP (FDEP SOP N/A)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (mV @ Temp °C)	Reading (mV)	Pass or Fail
Dissolved Oxygen Membrane Changed? Yes (No)					Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV	11/10/14	740	3AK68	11/16	240 @ 25°	241.0-240.0	P F
CAL ICV CCV	11/11/14	638	"	"	"	233.5-240.0	P F
CAL ICV CCV							P F
CAL ICV CCV							P F

Turbidity 0.1-10 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity 11-40 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity 41-100 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity >100 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Notes:

CAL = Initial Calibration

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

* See Table FS 2200-2 on the back of this form

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings <0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if neede

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec
consultants

Water Quality Instrument Calibration Form

Project/Site: CRHE KSC FL / LC36B Project #: RD 1681 Field Personnel: D. Sizemore

Water Quality Meter - Model/Serial#: YSI 556 0502373 Turbidimeter - Model/Serial#:

Dissolved Oxygen (FDEP SOP FT 1500)	Date	Time	Temp (°C)	Saturation (mg/L)*	Reading (mg/L)	Reading (%)	Pass or Fail
					Acceptance Criteria:+/-0.3 mg/L		
CAL ICV CCV	11/12/14	557	23.11	8.562	8.14-8.56	101.1-99.9	(P) F
CAL ICV CCV	11/13/14	0606	24.05	8.403	8.97-8.40	110.1-100.9	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F

Specific Conductance (FDEP SOP FT 1200)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (mS/cm)	Reading (mS/cm)	Pass or Fail
Specific Conductance Probe Cleaned? (Yes) No					**Acceptance Criteria: +/- 5%**		
CAL ICV CCV	11/12/14	558	7168	12/18	1.413	1111-1413	(P) F
CAL ICV CCV	11/13/14	607	"	"	"	1423-1411.5	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F

pH (FDEP SOP FT 1100)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (SU)	Reading (SU)	Pass or Fail
					Acceptance Criteria: +/- 0.2 SU		
CAL ICV CCV	11/12/14	600	2405440	4/16	7	7.17-7.00	(P) F
CAL ICV CCV	↓	603	2405568	5/16	4	4.05-4.00	(P) F
CAL ICV CCV	↓	609	2404751	10/15	10	10.13-10.02	(P) F
CAL ICV CCV	11/13/14	1008				7.12-7.01	(P) F
CAL ICV CCV	↓	611				4.01-4.00	(P) F
CAL ICV CCV	↓	613				10.11-10.04	(P) F

ORP (FDEP SOP N/A)	Date	Time	Standard Lot #	Standard Exp. Date	Standard (mV @ Temp °C)	Reading (mV)	Pass or Fail
Dissolved Oxygen Membrane Changed? Yes (No)					**Geosyntec Acceptance Criteria: +/- 5%**		
CAL ICV CCV	11/12/14	610	3AK643	11/16	240 @ 25	219.5-240.0	(P) F
CAL ICV CCV	11/13/14	614	"	"	"	219-240.1	(P) F
CAL ICV CCV							P F
CAL ICV CCV							P F

Turbidity 0.1-10 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity 11-40 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity 41-100 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Turbidity >100 NTU	Date	Standard (NTU)	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%		
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F
CAL ICV CCV				P F

Notes:

CAL = Initial Calibration
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
* See Table FS 2200-2 on the back of this form

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings <0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if neede
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

DPT GEOCHEMICAL LOGS

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0017

Project Number: FR1681

Date: 6/22/09

Time / DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0900 ~~JRB~~	8-12	6.27	1.12	>999	0.14	28.5	0.0	0.7	70
0902	8-12	6.49	1.05	>999	0.02	28.3	0.0	0.7	-82
0904	8-12	6.52	1.00	>999	0.05	28.1	0.0	0.6	-88
0912	16-20	6.64	1.11	>999	0.58	28.9	0.0	0.7	-120
0914	16-20	6.69	1.09	>999	0.07	28.8	0.0	0.7	-128
0916	16-20	6.75	1.09	>999	0.00	28.8	0.0	0.7	-135
0925	26-30	6.85	1.26	>999	0.00	27.3	0.1	0.8	-150
0927	26-30	6.83	1.26	>999	0.00	27.2	0.1	0.8	-149
0929	26-30	6.83	1.26	>999	0.00	27.0	0.1	0.8	-148
0940	36-40	7.25	1.30	>999	0.00	29.0	0.1	0.8	-226
0942	36-40	7.30	1.30	>999	0.00	28.9	0.1	0.8	-225
0944	36-40	7.30	1.30	>999	0.00	28.8	0.1	0.8	-222
1046	41-45	7.06	1.37	>999	0.90	30.8	0.1	0.9	-216
1048	41-45	7.15	1.39	>999	0.14	30.0	0.1	0.9	-214
1050	41-45	7.15	1.41	>999	0.00	29.4	0.1	0.9	-209
1106	46-50	7.00	1.82	>999	0.17	31.0	0.1	1.2	-197
1108	46-50	7.04	1.87	>999	0.02	30.2	0.1	1.2	-201
1110	46-50	7.04	1.89	>999	0.00	29.9	0.1	1.2	-201
1126	61-65	7.36	2.69	>999	0.00	34.0	0.1	2.1	-299
1128	61-65	7.39	3.72	>999	0.00	30.4	0.2	2.7	-298
1130	61-65	7.42	4.21	>999	0.00	29.8	0.2	2.7	-298

Note: Insert units if not provided on sheet. (1) >999 indicates turbidity reading is out of range of LaMotte.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0018

Project Number: FR1681

Date: 6/22/09

DPT Location (Time)	Sample Depth	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1246	8-12	6.94	1.22	>999	0.97	35.5	0.1	0.8	-218
1248	8-12	7.01	1.33	>999	0.61	35.5	0.1	0.8	-207
1250	8-12	7.03	1.21	>999	1.73	35.5	0.0	0.7	-211
1300	16-20	6.96	1.13	>999	0.67	31.4	0.1	0.8	-184
1302	16-20	7.02	1.18	>999	0.21	30.6	0.1	0.8	-188
1304	16-20	7.05	1.17	>999	0.06	30.2	0.1	0.7	-185
1314	26-30	6.79	1.47	>999	0.11	31.1	0.1	0.9	-183
1316	26-30	6.85	1.48	>999	0.00	30.7	0.1	1.0	-187
1318	26-30	6.88	1.65	>999	0.00	30.6	0.1	1.1	-182
1330	36-40	7.07	1.25	>999	0.73	32.7	0.1	0.8	-231
1332	36-40	7.19	1.30	>999	0.04	31.5	0.1	0.9	-227
1334	36-40	7.23	1.46	>999	0.00	31.0	0.1	0.9	-220
1400	41-45	7.13	1.28	>999	0.41	33.4	0.1	0.8	-256
1402	41-45	7.22	1.33	>999	0.04	31.8	0.1	0.8	-256
1404	41-45	7.24	1.25	>999	0.00	31.0	0.1	0.8	-246
1416	46-50	7.01	1.26	>999	0.55	34.6	0.1	0.9	-243
1418	46-50	7.13	1.47	>999	0.05	33.0	0.1	1.0	-229
1420	46-50	7.16	1.58	>999	0.00	31.7	0.1	1.0	-226
1438	61-65	7.05	3.02	>999	0.13	32.9	0.2	2.3	-249
1440	61-65	7.12	3.90	>999	0.00	32.1	0.2	2.6	-253
1442	61-65	7.22	4.11	>999	0.00	31.5	0.2	2.7	-253

Note: Insert units if not provided on sheet. (1) >999 indicates turbidity is out of range for LaMotte.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Tim's DPT0019

Date: 6/22/09

~~DPT Location~~	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1600	8-12	7.49	0.921	>999	0.18	37.8	0.0	0.55	-199
1602	8-12	7.47	0.798	>999	0.10	37.7	0.0	0.49	-206
1604	8-12	7.44	0.750	>999	0.06	37.7	0.0	0.48	-213
1610	16-20	7.23	1.01	>999	0.00	32.2	0.0	0.6	-217
1612	16-20	7.19	1.01	>999	0.00	30.8	0.0	0.6	-213
1614	16-20	7.18	0.99	>999	0.00	30.2	0.0	0.6	-208
1620	26-30	6.71	1.93	>999	0.00	29.1	0.1	1.2	-131
1622	26-30	6.69	1.82	>999	0.00	28.9	0.1	1.2	-130
1624	26-30	6.67	1.80	>999	0.00	28.8	0.1	1.1	-128
1634	36-40	7.32	1.21	>999	0.17	32.7	0.1	0.8	-225
1636	36-40	7.32	1.28	>999	0.00	31.6	0.1	0.8	-227
1638	36-40	7.33	1.29	>999	0.00	31.2	0.1	0.8	-227
1700	41-45	7.30	1.28	>999	0.65	33.7	0.1	0.9	-227
1702	41-45	7.18	1.39	>999	0.16	31.8	0.1	0.9	-225
1704	41-45	7.17	1.44	>999	0.04	31.2	0.1	0.9	-220
1716	46-50	7.09	1.49	>999	0.19	32.6	0.1	1.0	-210
1718	46-50	7.05	1.60	>999	0.00	30.8	0.1	1.1	-198
1720	46-50	7.04	1.71	>999	0.00	30.1	0.1	1.1	-190
1736	61-65	7.15	3.21	>999	0.00	33.2	0.2	2.2	-243
1738	61-65	7.21	3.53	>999	0.00	32.0	0.2	2.4	-244
1740	61-65	7.25	3.78	>999	0.00	31.6	0.2	2.5	-246

Note: Insert units if not provided on sheet. (1) >999 indicates Turbidity is out of range of LaMotte

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-20

Project Number: FR1681

Date: 6/23/09 / 6/24/09

DPT Location	Sample Depth (FT)	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
914	8-12	6.77	0.774	>999	4.17	27.48	36	0.479	-125.1
916	8-12	6.74	0.763	>999	2.17	27.38	35	0.474	-117.2
918	8-12	6.73	0.758	>999	1.80	27.34	35	0.471	-113.3
SAMPLE ~~9:20~~	~	6.50 CAL	PURGED PRIOR TO FIRST READING						
932	16-20	7.67	0.657	950	0.92	26.15	31	0.416	-176.0
934	16-20	7.68	0.646	>999	0.83	25.98	31	0.412	-180.2
936	16-20	7.68	0.641	>999	0.80	25.72	31	0.411	-186.1
938	SAMPLE								
951	26-30	7.31	0.962	>999	0.84	27.05	45	0.601	-153.4
953	26-30	7.28	0.956	>999	0.85	26.91	45	0.599	-155.9
955	26-30	7.25	0.949	>999	0.86	26.79	45	0.597	-149.6
957	SAMPLE								
1012	36-40	7.43	0.991	>999	0.86	28.69	45	0.602	-196.7
1014	36-40	7.40	0.989	>999	0.75	28.51	45	0.603	-193.8
1016	36-40	7.37	0.983	>999	0.68	28.21	45	0.602	-191.3
1018	SAMPLE								
1047	41-45	7.38	1.237	>999	0.65	29.03	56	0.746	-222.6
1049	41-45	7.35	1.229	>999	0.59	28.71	56	0.746	-219.0
1051	41-45	7.34	1.224	>999	0.55	28.56	56	0.745	-219.3
1053	SAMPLE								
1113	46-50	7.40	1.374	>999	0.75	29.59	62	0.823	-262.0
1115	46-50	7.37	1.368	>999	0.63	28.94	63	0.828	-263.2
1117	46-50	7.35	1.367	>999	0.55	28.55	63	0.833	-262.6
1119	SAMPLE								
1139	61-65	7.71	1.611	>999	0.34	30.86	72	0.945	-338.2
1141	61-65	~~7.71~~	1.645	>999	0.36	30.47	74	0.978	-364.1
1143	61-65	7.69	1.774	>999	0.37	29.65	83	1.090	-388.8
1145	SAMPLE								

Note: Insert units if not provided on sheet.

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6/24/09

1647	71-75	7.45	4.472	>9999	0.24	30.76	216	2.685	-233.9
1649	71-75	7.40	4.796	>999	0.19	29.33	235	2.889	-224.6
1651	71-75	7.29	4.837	>999	0.17	28.59	240	2.941	-211.5
1653	SAMPLE								

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT-21

Project Number: FR1681
Date: 6/23/05

DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1334	8-12	7.48	0.813	>999	0.36	31.63	35	0.468	-204.9
1336	8-12	7.43	0.801	850	0.36	31.22	35	0.466	-199.2
1338	8-12	7.36	0.793	400	0.48	30.73	34	0.465	-194.8
1340	SAMPLE								
1358	16-20	7.40	0.895	>999	0.46	30.43	39	0.527	-175.3
1400	16-20	7.38	0.880	>999	0.67	30.01	39	0.522	-177.0
1402	16-20	7.37	0.871	>999	0.74	29.50	39	0.521	-176.9
1404	SAMPLE								
1415	26-30	7.24	1.853	>999	0.77	31.24	83	1.088	-197.9
1417	26-30	7.16	1.928	>999	0.71	30.90	87	1.129	-198.3
1419	26-30	7.11	1.932	>999	0.54	30.42	88	1.139	-184.7
1421	SAMPLE								
1447	36-40	7.40	1.125	>999	0.46	32.51	48	0.639	-251.1
1449	36-40	7.38	1.117	>999	0.56	32.17	47	0.634	-252.5
1451	36-40	7.38	1.085	>999	0.47	31.59	47	0.627	-251.8
1453	SAMPLE								
1511	41-45	7.41	1.316	>999	0.22	31.36	58	0.769	-288.1
1513	41-45	7.36	1.366	>999	0.32	31.82	60	0.789	-286.8
1515	41-45	7.35	1.379	>999	0.41	31.72	60	0.785	-283.6
1517	SAMPLE								
1539	46-50	7.47	1.475	>999	0.33	31.70	65	0.861	-409.6
1541	46-50	7.46	1.522	>999	0.30	31.07	67	0.888	-431.5
1543	46-50	7.44	1.544	>999	0.28	30.66	69	0.909	-445.3
1545	~~46-50~~ SAMPLE								
1608	61-65	7.56	1.950	>999	0.38	30.21	93	1.235	-420.2
1610	61-65	7.57	3.112	>999	0.31	29.16	156	1.896	-434.2
1612	61-65	7.52	3.843	>999	0.27	28.52	190	2.368	-436.6
1614	SAMPLE								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-22

Project Number: FR1681

Date: 6/23/09 / 6/24/09

DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 µg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1648	8-12	7.18	0.970	>999	0.16	29.64	43	0.578	-190.3
1650	8-12	7.13	0.948	>999	0.22	29.03	43	0.572	-186.9
1652	8-12	7.11	0.942	>999	0.41	28.89	43	0.571	-189.6
1654	SAMPLE								
1702	16-20	7.20	1.024	>999	0.51	28.61	46	0.610	-184.0
1704	16-20	7.16	1.014	>999	0.54	29.34	46	0.609	-195.3
1706	16-20	7.15	0.999	>999	0.38	28.86	45	0.604	-201.7
1708	SAMPLE								
1718	26-30	7.16	1.323	>999	0.36	29.45	60	0.793	-215.4
1720	26-30	7.09	1.317	>999	0.59	29.18	60	0.792	-212.8
1722	26-30	7.04	1.302	>999	0.41	28.97	60	0.786	-206.6
1724	SAMPLE								
1739	36-40	7.33	1.227	>999	0.27	30.09	55	0.731	-235.9
1741	36-40	7.29	1.224	>999	0.24	29.42	55	0.733	-236.0
1743	36-40	7.26	1.209	>999	0.23	28.88	55	0.731	-229.0
1745	SAMPLE								
CONTINUE	DPT 6/24/09								
753	41-45	7.09	1.130	>999	0.30	25.84	55	0.730	-242.8
755	41-45	7.10	1.166	>999	0.28	25.88	57	0.746	-250.9
757	41-45	7.09	1.177	>999	0.27	25.91	57	0.753	-252.6
759	SAMPLE								
816	46-50	7.27	1.550	>999	0.26	27.18	75	0.983	-212.6
818	46-50	7.21	1.688	>999	0.25	27.02	82	1.066	-209.9
820	46-50	7.16	1.754	>999	0.30	26.80	85	1.102	-201.5
822	SAMPLE								
845	61-65	7.45	2.791	>999	0.41	27.58	136	1.727	-259.9
847	61-65	7.44	2.775	>999	0.42	27.89	135	1.711	-268.5
849	61-65	7.44	2.665	>999	0.45	27.94	128	1.624	-277.2
851	SAMPLE								
1723	71-75	7.52	3.675	>1000	0.14	29.69	168	2.174	-241.9
1725	71-75	7.55	3.358	>1000	0.12	28.81	165	2.079	-248.8
1727	71-75	7.52	3.933	>1000	0.12	29.09	191	2.377	-254.2

6/24/09

Note: Insert units if not provided on sheet.

SAMPLE @ 1729

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-23

Project Number: FR1681

Date: 6/24/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
952	8-12	7.22	0.792	>999	0.47	31.87	34	0.454	-184.2
954	8-12	7.19	0.767	>999	0.23	31.49	33	0.444	-187.3
956	8-12	7.18	0.741	>999	0.22	30.53	32	0.435	-190.0
~~SAMP~~ 958	SAMPLE								
1005	16-20	7.39	0.765	>999	0.43	30.44	33	0.450	-212.1
1007	16-20	7.34	0.765	450	0.19	30.25	34	0.453	-210.5
1009	16-20	7.32	0.770	400	0.20	30.38	34	0.454	-217.2
1011	SAMPLE								
1020	26-30	7.35	1.065	>999	0.26	30.47	47	0.630	-204.1
1022	26-30	7.30	1.079	>999	0.20	30.35	48	0.636	-207.9
1024	26-30	7.26	1.073	>999	0.30	30.00	48	0.637	-204.8
1026	SAMPLE					~~31.12~~			
1039	36-40	7.38	1.054	>999	0.17	31.12	46	0.616	-224.5
1041	36-40	7.33	1.084	>999	0.17	31.47	47	0.628	-228.0
1043	36-40	7.32	1.088	>999	0.20	31.65	47	0.634	-231.4
1045	SAMPLE								
1150	41-45	7.28	1.322	>999	0.31	33.03	56	0.749	-233.4
1152	41-45	7.25	1.365	>999	0.31	33.02	58	0.771	-238.2
1154	41-45	7.22	1.382	>999	0.43	32.84	59	0.782	-239.8
1156	SAMPLE								
1215	46-50	7.29	1.364	>999	0.25	32.07	59	0.784	-244.5
1217	46-50	7.26	1.386	>999	0.34	32.44	60	0.789	-246.9
1219	46-50	7.23	1.387	>999	0.35	32.47	60	0.789	-249.7
1221	SAMPLE								
1243	61-65	7.41	4.493	>999	0.24	28.66	222	2.737	-251.1
1245	61-65	7.37	4.495	>999	0.23	28.12	224	2.759	-249.1
1247	61-65	7.32	4.506	>999	0.24	28.05	224	2.761	-250.5
1249	SAMPLE								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-24

Project Number: FR1681

Date: 6/24/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1325	8-12	7.19	0.885	>999	0.21	30.99	38	0.515	-173.4
1327	8-12	7.12	0.846	>999	0.16	30.33	37	0.497	-172.5
1329	8-12	7.04	0.806	>999	0.19	29.61	36	0.479	-164.9
1331	SAMPLE								
1355	16-20	7.88	0.519	>999	0.20	28.97	23	0.312	-236.3
1357	16-20	7.88	0.505	>999	0.14	29.20	22	0.302	-240.0
1359	16-20	7.87	0.507	>1100	0.13	30.57	22	0.298	-245.7
1401	SAMPLE								
1416	26-30	7.38	0.864	>999	0.37	30.51	38	0.507	-215.3
1418	26-30	7.34	0.875	>999	0.36	31.30	38	0.508	-214.6
1420	26-30	7.30	0.876	>999	0.35	31.38	38	0.508	-211.8
1422	SAMPLE								
1443	36-40	7.41	1.050	>999	0.27	31.88	45	0.604	-231.7
1445	36-40	7.39	1.044	>999	0.25	30.74	47	0.613	-227.9
1447	36-40	7.35	1.033	>999	0.25	29.91	46	0.613	-225.5
1449	SAMPLE	~~7.31~~	~~1.259~~	~~>999~~	0.23	32.11	~~54~~	0.723	-220.7
1505	41-45	7.31	1.259	>999	0.23	32.11	54	0.723	-220.7
1507	41-45	7.28	1.292	>999	0.24	32.44	55	0.736	-223.7
1509	41-45	7.27	1.298	>999	0.28	32.30	56	0.741	-225.9
1511	SAMPLE								
1528	46-50	7.37	1.254	>999	0.19	33.05	52	0.698	-238.9
1530	46-50	7.33	1.259	>999	0.17	31.87	55	0.728	-241.8
1532	46-50	7.30	1.266	>999	0.16	31.50	55	0.733	-242.1
1534	SAMPLE								
1556	61-65	7.41	4.657	>999	0.32	31.89	218	2.706	-235.8
1558	61-65	7.41	4.859	>999	0.24	31.39	228	2.822	-237.9
1600	61-65	7.40	4.898	>999	0.22	30.92	232	2.862	-237.1
1602	SAMPLE								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-25

Project Number: FR1681

Date: 6/25/09

DPT Location	Sample Depth	pH std units	Conductivity ~ S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
811	8-12	6.89	0.962	600	1.18	27.68	45	0.595	-132.0
813	8-12	6.86	0.940	450	1.80	27.81	43	0.579	-112.8
815	8-12	6.86	0.940	400	1.93	29.79	44	0.580	-110.8
817	SAMPLE	—	—	—	—	—	—	—	—
825	16-20	7.46	0.765	7999	0.66	27.46	35	0.473	-185.9
827	16-20	7.47	0.745	>999	0.34	27.20	34	0.463	-194.4
829	16-20	7.46	0.726	7999	0.31	27.12	34	0.453	-194.8
831	SAMPLE	—	—	—	—	—	—	—	—
849	26-30	7.26	1.257	>999	0.23	28.09	59	0.772	-183.1
851	26-30	7.18	1.254	>999	0.26	27.81	59	0.773	-167.8
853	26-30	7.15	1.240	>999	0.46	27.58	58	0.768	-167.6
855	SAMPLE	—	—	—	—	—	—	—	—
910	36-40	7.36	1.254	7999	0.86	28.30	58	0.768	-207.0
912	36-40	7.33	1.265	>999	0.69	28.30	59	0.774	-205.5
914	36-40	7.31	1.265	7999	0.62	28.26	59	0.774	-205.0
916	SAMPLE	—	—	—	—	—	—	—	—
935	41-45	7.33	1.311	7999	0.58	29.47	60	0.789	-210.9
937	41-45	7.30	1.317	7999	0.52	28.54	61	0.804	-206.3
939	41-45	7.27	1.310	7999	0.57	27.98	61	0.806	-199.7
941	SAMPLE	—	—	—	—	—	—	—	—
957	46-50	7.31	1.691	7999	0.40	30.01	77	1.008	-207.9
959	46-50	7.27	1.735	7999	0.50	29.75	80	1.036	-204.4
1001	46-50	7.25	1.744	7999	0.53	29.38	80	1.046	-198.4
1003	SAMPLE	—	—	—	—	—	—	—	—
1030	61-65	7.43	4.665	7999	0.56	30.15	226	2.755	-225.3
1032	61-65	7.44	4.851	7999	0.39	29.21	258	2.929	-227.6
1034	61-65	7.46	4.864	>999	0.46	28.48	242	2.969	-226.9
1036	SAMPLE	—	—	—	—	—	—	—	—

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-26

Project Number: FR1681

Date: 6/25/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1104	8-12	6.97	1.202	>999	1.08	32.17	51	0.683	-112.9
1106	8-12	6.93	1.137	>999	0.74	31.20	49	0.658	-117.6
1108	8-12	6.92	1.104	>999	0.70	30.78	48	0.645	-119.2
1110	SAMPLE	—	—	—	—	—	—	—	→
1204	16-20	7.52	0.730	1100	0.31	30.70	32	0.427	-196.5
1206	16-20	7.50	0.709	750	0.27	30.44	31	0.418	-185.5
1208	16-20	7.49	0.687	950	0.27	29.32	30	0.413	-194.3
1210	SAMPLE	—	—	—	—	—	—	—	→
1223	26-30	7.07	1.361	>999	0.37	29.88	61	0.807	-163.2
1225	26-30	7.02	1.350	>999	0.51	29.86	61	0.803	-161.8
1227	26-30	7.00	1.344	>999	0.48	29.69	61	0.801	-157.9
1229	SAMPLE	—	—	—	—	—	—	—	→
1251	36-40	7.32	1.191	>999	0.40	31.76	52	0.689	-215.2
1253	36-40	7.30	1.201	>999	0.46	31.61	52	0.694	-215.1
1255	36-40	7.28	1.200	7999	0.43	31.35	52	0.696	-213.8
1257	SAMPLE	—	—	—	—	—	—	—	→
1315	41-45	7.31	1.349	7999	0.35	31.99	59	0.777	-225.1
1317	41-45	7.29	1.374	7999	0.36	31.56	60	0794	-225.3
1319	41-45	7.28	1.387	7999	0.40	31.55	61	0.801	-224.1
1321	SAMPLE	—	—	—	—	—	—	—	→
1337	46-50	7.25	1.696	>999	0.33	31.54	75	0.989	-198.4
1339	46-50	7.21	1.758	>999	0.32	31.70	77	1.014	-196.3
1341	4650	7.19	1.761	7999	0.37	31.46	78	1.019	-192.0
1343	SAMPLE	—	—	—	—	—	—	—	→
1403	61-65	7.38	4.108	7999	0.33	30.27	202	2.523	-238.5
1405	61-65	7.42	4.521	>999	0.34	29.02	223	2.734	-242.0
1407	61-65	7.39	4.661	>999	0.32	28.65	230	2.831	-239.9
1409	SAMPLE	—	—	—	—	—	—	—	→

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-27

Project Number: FR1681

Date: 6/25/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1446	8-12	6.69	0.697	>999	0.47	30.65	30	409	-124.9
1448	8-12	6.70	0.658	>999	0.49	30.43	28	386	-122.4
1450	8-12	6.71	0.642	>999	0.47	30.08	28	380	-125.5
1452	SAMPLE	—	—	—	—	—	—	—	→
1502	16-20	8.34	0.336	>999	0.71	27.20	15	207	-240.2
1504	16-20	8.03	0.316	>999	0.58	27.27	14	196	-224.7
1506	16-20	8.02	0.304	>999	0.54	28.05	13	185	-197.6
1508	SAMPLE	—	—	—	—	—	—	—	→
1521	26-30	7.74	0.606	>999	0.33	31.07	26	358	-238.3
1523	26-30	7.73	0.609	>999	0.30	30.35	26	359	-234.5
1525	26-30	7.74	0.606	>999	0.28	30.39	26	357	-234.3
1527	SAMPLE	—	—	—	—	—	—	—	→
1541	36-40	7.21	1.139	>999	0.46	29.07	52	0.687	-176.2
1543	36-40	7.20	1.131	>999	0.45	28.88	52	0.685	-177.4
1545	36-40	7.19	1.122	>999	0.43	28.69	51	0682	-178.5
1547	SAMPLE	—	—	—	—	—	—	—	→
1612	41-45	7.26	1.255	>999	0.44	28.32	58	0.768	-190.9
1614	41-45	7.25	1.259	>999	0.42	28.05	59	0.774	-190.4
1616	41-45	7.25	1.256	>999	0.36	27.77	59	0.775	-190.9
1618	SAMPLE	—	—	—	—	—	—	—	→
1636	46-50	7.27	1.128	>999	0.38	28.48	52	0.691	-193.4
1638	46-50	7.23	1.150	>999	0.37	28.23	53	0.704	-188.6
1640	46-50	7.21	1.148	>999	0.38	27.99	53	0.706	-188.7
1642	SAMPLE	—	—	—	—	—	—	—	→
1658	61-65	7.57	3.091	>999	0.82	28.65	152	1.877	-198.3
1700	61-65	7.54	3.679	>999	0.39	27.84	185	2.317	-238.7
1702	61-65	7.48	4.256	>999	0.37	27.50	216	2.646	-239.3
1704	SAMPLE	—	—	—	—	—	—	—	→

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-28

Project Number: FR1681

Date: 6/26/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
718	8-12	6.64	0.615	>999	0.48	25.76	29	0.393	-146.0
720	8-12	6.70	0.600	>999	0.50	25.71	29	0.384	-147.3
722	8-12	6.73	0.592	>999	0.61	25.67	28	0.379	-141.1
724	SAMPLE								
733	16-20	7.16	0.684	>999	0.65	26.28	32	0.435	-142.6
735	16-20	7.20	0.680	800	0.35	26.14	32	0.433	-164.7
737	16-20	7.23	0.674	750	0.42	26.02	32	0.429	-162.3
739	SAMPLE								
751	26-30	7.14	1.185	>900	0.48	26.62	57	0.750	-173.0
753	26-30	7.09	1.200	>900	0.51	26.51	58	0.758	-168.7
755	26-30	7.04	1.196	>900	0.65	26.33	58	0.758	-161.1
757	SAMPLE								
811	36-40	7.65	0.689	>999	0.34	28.60	31	0.423	-220.4
813	36-40	7.65	0.685	>999	0.29	28.10	31	0.421	-231.2
815	36-40	7.67	0.756	>999	0.30	27.99	35	0.469	-237.0
817	SAMPLE								
838	41-45	7.31	1.251	>999	0.55	28.02	59	0.772	-199.6
840	41-45	7.30	1.272	>999	0.46	27.98	59	0.783	-203.9
842	41-45	7.29	1.277	>999	0.42	27.86	60	0.788	-204.1
844	SAMPLE								
900	46-50	7.22	1.626	>999	0.60	27.85	77	1.002	-178.3
902	46-50	7.20	1.645	>999	0.51	27.80	78	1.013	-173.6
904	46-50	7.17	1.648	>999	0.41	27.80	78	1.016	-167.7
906	SAMPLE								
925	61-65	7.39	4.611	>999	0.79	27.62	234	2.853	-202.0
927	61-65	7.36	4.650	>999	0.65	27.18	237	2.904	-200.0
929	61-65	7.34	4.648	>999	0.57	26.95	238	2.914	-194.8
931	SAMPLE								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-29

Project Number: FR1681

Date: 6/26/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1003	8-12	7.42	0.847	>999	1.05	28.41	39	0.515	-152.6
1005	8-12	7.38	0.822	>999	2.15	28.17	38	0.503	-136.6
1007	8-12	7.37	0.804	>999	3.08	27.96	37	0.495	-118.7
1009	SAMPLE	—	—	—	—	—	—	—	→
1017	16-20	7.56	0.660	>999	0.41	27.78	30	0.407	-198.7
1019	16-20	7.56	0.647	950	0.42	27.65	30	0.401	-205.6
1021	16-20	7.56	0.638	1000	0.39	27.34	29	0.397	-208.6
1023	SAMPLE	—	—	—	—	—	—	—	→
1035	26-30	7.16	1.241	>999	0.45	27.51	58	0.769	-154.8
1037	26-30	7.13	1.244	>999	0.44	27.67	58	0.769	-154.1
1039	26-30	7.11	1.243	>999	0.55	27.71	58	0.768	-153.1
1041	SAMPLE	—	—	—	—	—	—	—	→
1055	36-40	7.37	0.945	>999	0.39	28.69	43	0.574	-195.2
1057	36-40	7.34	0.943	>999	0.36	28.53	43	0.574	-192.6
1059	36-40	7.33	0.937	>999	0.38	28.30	43	0.572	-191.7
1101	SAMPLE	—	—	—	—	—	—	—	→
1208	41-45	7.33	1.281	>999	0.36	30.00	58	0.761	-200.8
1210	41-45	7.32	1.282	>999	0.32	30.00	58	0.761	-200.1
1212	41-45	7.30	1.273	>999	0.33	29.74	57	0.759	-195.4
1214	SAMPLE	—	—	—	—	—	—	—	→
1233	46-50	7.29	1.405	>999	0.41	31.34	62	0.816	-218.5
1235	46-50	7.26	1.464	>999	0.40	31.25	65	0.850	-219.0
1237	46-50	7.25	1.487	>999	0.41	30.85	66	0.872	-217.6
1239	SAMPLE	—	—	—	—	—	—	—	→
1259	61-65	7.37	4.656	>999	0.18	29.83	225	2.774	-216.9
1301	61-65	7.39	4.742	>999	0.18	29.71	230	2.830	-222.7
1303	61-65	7.39	4.764	>999	0.18	29.53	232	2.851	-225.1
1305	SAMPLE	—	—	—	—	—	—	—	→

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-30

Project Number: FR1681

Date: 6/26/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1434	8-12	7.02	0.508	>999	0.27	30.61	34	0.463	-108.4
1436	8-12	6.98	0.730	>999	0.24	30.80	32	0.428	-119.4
1438	8-12	6.96	0.683	>999	0.32	30.10	30	0.403	-128.5
1440	SAMPLE								
1451	16-20	7.40	0.631	>999	0.29	29.42	28	0.378	-176.2
1453	16-20	7.40	0.620	~~>999~~ 980	0.22	29.41	27	0.372	-194.6
1455	16-20	7.40	0.621	900	0.20	29.53	27	0.372	-199.1
1457	SAMPLE								
1510	26-30	7.53	0.687	>999	0.26	30.56	30	0.404	-223.5
1512	26-30	7.49	0.683	>999	0.23	30.21	30	0.404	-226.0
1514	26-30	7.48	0.676	>999	0.23	29.54	30	0.402	-226.5
1516	SAMPLE								
1528	36-40	7.34	1.056	>999	0.28	31.30	46	0.614	-209.3
1530	36-40	7.34	1.066	>999	0.25	30.83	47	0.624	-212.3
1532	36-40	7.32	1.048	>999	0.27	30.83	46	0.618	-208.3
1534	SAMPLE								
1555	41-45	7.25	1.267	>999	0.32	31.22	56	0.738	-185.7
1557	41-45	7.23	1.264	>999	0.31	29.95	57	0.752	-185.0
1559	41-45	7.22	1.246	>999	0.32	28.15	57	0.754	-183.0
1601	SAMPLE								
1615	46-50	7.15	1.457	>999	0.40	30.34	66	0.863	-168.8
1617	46-50	7.13	1.504	>999	0.47	30.67	67	0.883	-171.0
1619	46-50	7.12	1.528	>999	0.43	31.00	68	0.892	-171.0
1621	SAMPLE								
1637	61-65	7.31	4.453	>999	0.30	29.78	218	2.663	-212.4
1639	61-65	7.33	4.616	>999	0.29	29.05	227	2.788	-212.3
1641	61-65	7.33	4.660	>999	0.29	28.44	232	2.844	-208.3
1643	SAMPLE								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0031

Project Number: FR1681

Date: 7/16/09

DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0846	8-12	6.87	0.968	>999	1.43	28.13	0.44	0.585	-51.2
0848	8-12	6.94	0.947	>999	1.54	27.94	0.44	0.584	-61.7
0850	8-12	6.97	0.949	>999	1.66	27.95	0.44	0.584	-62.2
0856	16-20	7.40	0.798	>999	0.68	28.64	0.36	0.488	-121.5
0858	16-20	7.37	0.795	>999	0.52	28.18	0.36	0.485	-129.7
0900	16-20	7.35	0.783	>999	0.46	27.79	0.36	0.482	-134.0
0906	26-30	7.29	1.232	>999	1.50	28.54	0.57	0.750	-141.4
0908	26-30	7.26	1.238	>999	0.86	28.32	0.58	0.760	-148.3
0910	26-30	7.21	1.243	>999	0.58	27.78	0.59	0.771	-144.3
0924	36-40	7.57	0.972	>999	1.16	29.26	0.44	0.586	-165.9
0926	36-40	7.49	0.964	>999	0.43	28.72	0.44	0.586	-174.3
0928	36-40	7.46	0.960	>999	0.36	28.40	0.44	0.586	-177.3
0954	41-45	7.37	1.190	>999	1.05	29.46	0.54	0.717	-183.6
0956	41-45	7.36	1.199	>999	0.76	29.16	0.55	0.726	-183.0
0958	41-45	7.35	1.203	>999	0.54	28.86	0.55	0.728	-182.3
1014	46-50	7.36	1.460	>999	1.14	30.41	0.67	0.874	-134.5
1016	46-50	7.33	1.488	>999	0.58	29.20	0.71	0.933	-134.2
1018	46-50	7.25	1.513	>999	0.28	27.72	0.72	0.935	-132.1
1032	61-65	7.40	4.372	>999	0.32	29.61	2.16	2.625	-177.0
1034	61-65	7.41	4.437	>999	0.27	29.00	2.17	2.678	-180.0
1036	61-65	7.41	4.453	>999	0.26	28.46	2.20	2.710	-180.9

Note: Insert units if not provided on sheet. ① >999 indicates Turbidity is out of measurable range.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0032

Project Number: FR16581

Date: 7/16/09

~~DPT~~ Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1224	8-12	9.63	0.502	>999	0.43	29.47	0.21	0.302	-213.0
1226	8-12	9.66	0.454	>999	0.28	29.60	0.19	0.270	-220.6
1228	8-12	9.70	0.438	>999	0.19	29.46	0.19	0.259	-228.7
1242	16-20	8.24	0.537	>999	0.43	28.21	0.25	0.338	-130.9
1244	16-20	8.17	0.572	>999	0.35	28.12	0.26	0.359	-136.2
1246	16-20	8.06	0.595	>999	0.30	28.10	0.27	0.372	-138.6
1252	26-30	8.03	0.928	>999	0.96	29.81	0.46	0.590	-113.2
1254	26-30	7.66	1.045	>999	0.47	28.74	0.48	0.649	-121.0
1256	26-30	7.50	1.104	>999	0.31	27.92	0.52	0.682	-127.5
1308	36-40	7.56	0.826	>999	0.45	29.85	0.37	0.493	-165.0
1310	36-40	7.54	0.821	>999	0.33	29.20	0.37	0.494	-179.4
1312	36-40	7.52	0.819	>999	0.31	28.87	0.37	0.496	-183.4
1332	41-45	7.81	0.948	>999	0.52	30.16	0.44	0.581	-162.8
1334	41-45	7.70	1.060	>999	0.35	29.44	0.46	0.620	-168.5
1336	41-45	7.58	1.099	>999	0.31	28.66	0.50	0.663	-168.5
1352	46-50	7.60	1.128	>999	0.52	29.65	0.52	0.682	-148.9
1354	46-50	7.55	1.180	>999	0.38	29.24	0.53	0.700	-156.4
1356	46-50	7.49	1.200	>999	0.33	28.91	0.55	0.721	-162.8
1412	61-65	8.32	4.115	>999	0.28	28.34	2.05	2.548	-194.7
1414	61-65	8.17	4.192	>999	0.26	28.00	2.09	2.586	-196.0
1416	61-65	8.09	4.230	>999	0.27	27.82	2.12	2.624	-197.8

Note: Insert units if not provided on sheet.

① >999 indicates Turbidity is out of measurable range.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0033

Project Number: FR1681

Date: 7/16/09

~~DPT~~ Time HRD Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1454	8-12	7.40	1.153	>999	1.24	32.89	0.49	0.652	-121.9
1456	8-12	7.37	1.126	>999	0.97	32.27	0.48	0.640	-126.5
1458	8-12	7.34	1.114	>999	0.76	32.11	0.48	0.637	-126.7
1508	16-20	7.58	0.825	>999	1.92	33.32	0.35	0.468	-140.1
1510	16-20	7.56	0.817	>999	1.04	32.27	0.35	0.471	-150.1
1512	16-20	7.54	0.808	>999	0.39	31.74	0.35	0.469	-154.5
1614	26-30	7.47	1.207	>999	1.15	31.58	0.52	0.697	-150.6
1616	26-30	7.37	1.184	>999	0.71	30.15	0.53	0.700	-161.0
1618	26-30	7.33	1.192	>999	0.40	29.75	0.54	0.710	-165.2
1628	36-40	**7.47**	**0.912**	**>999**	**0.19**	**29.44**	**0.41**	**0.547**	**-202.6**
1630	36-40	**7.47**	**0.912**	**>999**	**0.18**	**29.29**	**0.41**	**0.548**	**-202.2**
1632	36-40	**7.47**	**0.910**	**>999**	**0.18**	**29.12**	**0.41**	**0.548**	**-201.1**
1656	41-45	7.57	1.218	>999	1.43	33.21	0.52	0.689	-164.2
1658	41-45	7.53	1.215	>999	0.60	31.23	0.53	0.705	-175.1
1700	41-45	7.47	1.208	>999	0.39	30.92	0.53	0.706	-178.4
1714	46-50	7.38	1.539	>999	0.95	31.69	0.68	0.889	-155.3
1716	46-50	7.35	1.544	>999	0.63	31.19	0.68	0.899	-159.4
1718	46-50	7.35	1.547	>999	0.46	31.09	0.69	0.902	-160.2
1730	61-65	7.38	4.216	>999	1.26	32.54	1.98	2.483	-179.2
1732	61-65	7.39	4.383	>999	0.52	31.99	2.04	2.542	-191.4
1734	61-65	7.41	4.450	>999	0.29	31.50	2.09	2.600	-198.4

Note: Insert units if not provided on sheet. (1) >999 indicates turbidity is out of measureable range.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT 0034

Project Number: FR1618

Date: 7/17/09

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0755	0034	8-12	6.65	0.805	—	0.55	27.00	0.37	0.492	-96.4
0757			6.74	0.784	—	0.49	27.64	0.36	0.482	-57.5
0759			6.78	0.776	—	0.47	27.75	0.36	0.487	-66.1
	collected sample @ 0759									
807	0034	16-20	7.17	1.232	—	0.79	28.86	0.56	0.740	-138.5
809			7.16	1.206	—	0.37	28.38	0.55	0.731	-132.7
0811			7.15	1.178	—	0.30	27.80	0.29	0.724	-137.1
	collected sample @ 0811									
0822	0034	26-30	7.16	1.922	—	0.59	28.17	0.91	1.180	-152.2
0824			7.13	1.917	—	0.30	27.64	0.92	1.184	-142.2
0826			7.10	1.901	—	0.27	27.45	0.91	1.89	-137.0
	collected sample @ 0826									
0840	0034	36-40	7.42	1.179	—	0.85	29.96	0.53	0.703	-150.9
0842			7.32	1.167	—	0.38	29.15	0.53	0.702	-162.4
0844			7.31	1.161	—	0.25	28.87	0.53	0.703	-167.4
	collected sample @ 0844									
0910	0034	41-45	7.40	1.392	—	0.70	30.24	0.63	0.828	-161.1
0912			7.30	1.407	—	0.35	29.51	0.64	0.846	-162.5
0914			7.27	1.417	—	0.22	29.60	0.65	0.855	-160.5
	collected sample @ 0914									
0929	0034	46-50	7.59	1.428	—	0.95	30.47	0.64	0.849	-161.0
0931			7.37	1.522	—	0.37	29.90	0.69	0.911	-172.8
0933			7.32	1.557	—	0.23	29.34	0.71	0.928	-169.2
	collected sample @ 0933									
0949	0034	61-65	7.40	4.845	—	0.62	30.70	2.34	2.890	-177.9
0951			7.36	4.946	—	0.31	29.79	2.43	2.966	-117.0
0953			7.37	4.974	—	0.24	29.31	2.44	2.996	-191.9

Note: Insert units if not provided on sheet.

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collected sample @ 0953

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0035

Project Number: FR1681

Date: 11/6/09

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1040	8-12	11.90	2.634	>999	0.82	28.79	1.28	1.634	-263.9
1042	8-12	11.94	2.873	>999	0.43	28.51	1.35	1.734	-271.8
1044	8-12	12.01	2.944	>999	0.25	28.26	1.40	1.782	-275.6
1054	16-20	9.62	0.515	>999	0.22	28.71	0.25	0.365	-106.8
1056	16-20	9.15	0.617	>999	0.53	27.91	0.29	0.388	-110.8
1058	16-20	8.87	0.429	>999	0.37	27.36	0.33	0.455	-127.9
1104	26-30	8.47	0.589	>999	0.78	29.04	0.28	0.389	-151.7
1106	26-30	8.20	0.683	>999	0.46	27.71	0.32	0.442	-153.6
1108	26-30	7.99	0.745	>999	0.29	27.34	0.35	0.472	-153.9
1212	36-40	7.86	0.924	>999	0.70	28.96	0.43	0.584	-153.5
1214	36-40	7.64	0.992	>999	0.48	28.27	0.45	0.604	-153.0
1216	36-40	7.56	1.005	>999	0.41	28.03	0.46	0.615	-154.0
1226	41-45	7.79	1.094	>999	0.52	29.32	0.51	0.682	-148.0
1228	41-45	7.72	1.152	>999	0.31	28.21	0.54	0.718	-154.8
1230	41-45	7.61	1.185	>999	0.22	28.08	0.55	0.734	-158.6
1242	46-50	8.24	0.923	>999	0.99	29.43	0.44	0.573	-126.0
1244	46-50	7.73	1.137	>999	0.25	28.73	0.54	0.706	-127.6
1246	46-50	7.60	1.190	>999	0.22	27.73	0.55	0.732	-126.7
1308	61-65	7.92	4.805	>999	0.20	27.99	2.7	2.972	-149.5
1310	61-65	7.86	4.823	>999	0.20	27.57	2.5	2.992	-159.6
1312	61-65	7.80	4.825	>999	0.19	27.39	2.4	3.001	-166.6

Note: Insert units if not provided on sheet. (1) >999 indicates Turbidity is out of measurable range.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0036

Project Number: FR1681

Date: 7/17/09

DPT Location (Time / FRB)	Sample Depth	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1402	8-12	10.96	0.932	>999	0.90	34.35	0.33	0.491	-336.7
1404	8-12	10.95	0.683	>999	0.38	33.87	0.30	0.403	-334.4
1406	8-12	10.92	0.609	>999	0.20	33.29	0.27	0.362	-328.6
1412	16-20	8.89	0.671	>999	0.75	32.39	0.30	0.397	-66.9
1414	16-20	8.79	0.708	>999	0.35	30.24	0.31	0.422	-67.9
1416	16-20	8.68	0.716	>999	0.24	29.20	0.32	0.434	-73.0
1428	26-30	7.76	1.099	>999	0.67	28.75	0.51	0.672	-146.3
1430	26-30	7.68	1.119	>999	0.40	28.49	0.52	0.685	-142.2
1432	26-30	7.63	1.128	>999	0.36	28.17	0.52	0.695	-141.1
1442	36-40	7.83	1.069	>999	0.70	31.23	0.47	0.630	-143.2
1444	36-40	7.78	1.074	>999	0.34	30.35	0.47	0.635	-151.6
1446	36-40	7.71	1.088	>999	0.21	30.28	0.48	0.645	-158.4
1508	41-45	10.44	0.942	>999	1.87	33.57	0.39	0.560	-258.4
1510	41-45	10.55	0.854	>999	0.59	31.51	0.35	0.463	-204.7
1512	41-45	10.17	0.767	>999	0.46	30.84	0.32	0.433	-178.0
1524	46-50	8.84	0.890	>999	1.44	32.10	0.41	0.558	-68.6
1526	46-50	8.50	0.984	>999	0.66	31.20	0.44	0.599	-73.5
1528	46-50	8.27	1.058	>999	0.36	30.67	0.48	0.653	-86.6
		QAB							
	61-65	9.00	4.448	>999	0.32	32.55	2.11	2.602	-161.3
	61-65	8.76	4.546	>999	0.22	31.03	2.15	2.676	-157.7
	61-65	8.63	4.602	>999	0.18	30.72	2.19	2.717	-153.4

Note: Insert units if not provided on sheet. (1) >999 indicates Turbidity is out of measurable range.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-037

Project Number: FR1681

Date: 8/4/09

	DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
854	DPT 037	8-12	6.30	1260	31.4	3.62	29.86	56	0.739	-97.2
856	37	8-12	6.28	1238	2634	1.51	29.85	56	0.737	-130.9
858	37	8-12	6.27	1230	1633	1.35	29.52	55	0.730	-137.0
900	SAMPLE									
909	37	16-20	6.67	1389	>9999	0.28	29.80	63	0.824	-151.4
911	37	16-20	6.64	1355	74.5	0.15	29.47	61	0.809	-170.5
913	37	16-20	6.61	1324	2417	0.13	29.23	60	0.796	-182.4
915	SAMPLE									
926	DPT 037	26-30	6.91	1532	>9999	0.06	29.42	70	0.919	-344.1
928	037	26-30	6.87	1492	>9999	0.06	29.06	69	0.899	-360.3
930	037	26-30	6.82	1466	>9999	0.07	28.97	68	0.886	-362.8
932	SAMPLE									
946	DPT 037	36-40	7.03	2217	>9999	0.06	30.37	102	1.312	-402.2
948	037	36-40	6.88	2272	>9999	0.05	30.17	104	1.345	-418.5
950	037	36-40	6.94	2268	>9999	0.07	30.01	105	1.346	-425.2
952	SAMPLE									
1030	DPT 037	41-45	6.96	2583	>9999	0.26	31.36	117	1.489	-124.3
1032	037	41-45	6.90	2606	54.9	0.51	31.06	119	1.519	-128.4
1034	037	41-45	6.87	2607	6563	0.31	30.83	119	1.521	-125.0
1036	SAMPLE									
1052	DPT 037	46-50	7.07	3000	>9999	0.21	30.96	138	1.756	-175.1
1054	037	46-50	6.98	2996	8415	0.25	29.55	142	1.792	-179.1
1056	037	46-50	6.94	2974	1265	0.27	29.12	142	1.781	-147.9
1058	SAMPLE									
1117	DPT 037	61-65	7.39	5165	>9999	0.12	30.26	250	3.073	-260.3
1119	037	61-65	7.40	5243	61.8	0.12	29.28	258	3.155	-272.4
1121	037	61-65	7.39	5249	59.8	0.11	28.92	260	3.174	-280.5
1123	SAMPLE									

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-038

Project Number: FR1681

Date: 8/4/09

	DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1259	DPT 038	8-12	10.16	430	>9999	0.26	29.61	18	0.253	-221.6
1301	038	8-12	10.16	403	>9999	0.21	29.60	17	0.239	-238.2
1303	038	8-12	10.17	392	>9999	0.18	29.78	17	0.233	-256.0
1305	SAMPLE									
1312	DPT038	16-20	7.74	705	>9999	0.60	30.17	30	0.412	-256.9
1314	038	16-20	7.57	672	1773	0.29	29.56	30	0.401	-272.7
1316	038	16-20	7.49	658	1488	0.24	29.29	29	0.395	-275.1
1318	SAMPLE									
1328	DPT 038	26-30	7.35	1066	>9999	0.34	29.75	48	0.635	-238.2
1331	038	26-30	7.25	1062	>9999	0.31	29.25	48	0.638	-274.6
1333	038	26-30	7.20	1062	72.1	0.55	29.44	48	0.636	-280.4
1335	SAMPLE									
1348	DPT038	36-40	7.44	870	>9999	0.41	29.83	39	0.517	-336.8
1350	038	36-40	7.38	870	>9999	0.36	29.45	39	0.521	-407.5
1352	038	36-40	7.32	873	>9999	0.27	29.40	39	0.524	-420.8
1354	SAMPLE									
1428	DPT038	41-45	7.23	1124	>9999	0.17	29.83	51	0.673	-168.6
1430	038	41-45	7.18	1155	>9999	0.15	30.38	51	0.684	-188.2
1432	038	41-45	7.14	1171	>9999	0.18	30.63	52	0.687	-198.6
1434	SAMPLE									
1450	DPT-038	46-50	7.15	1238	>9999	0.44	31.35	54	0.716	-150.5
1452	038	46-50	7.07	1232	>9999	0.53	30.73	54	0.722	-157.0
1454	038	46-50	7.04	1227	5609	0.36	30.37	55	0.723	-159.5
1456	SAMPLE									
1519	DPT-038	61-65	7.35	4243	>9999	0.34	32.62	195	2.444	-190.4
1521	038	61-65	7.36	4348	>9999	0.17	30.36	207	2570	-235.4
1523	038	61-65	7.34	4357	7539	0.15	29.47	211	2609	-251.2
1525	SAMPLE									

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-039

Project Number: FR1681

Date: 8/4/09, 8/5/09

	DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1607	DPT-039	8-12	8.16	567	>9999	0.29	31.20	24	0.325	-91.5
1609	039	8-12	8.13	533	>9999	0.17	30.61	22	0.300	-148.9
1611	039	8-12	8.09	484	>9999	0.13	29.43	21	0.291	-175.4
1613	SAMPLE									
→	CONTINUE DPT ON 8-5-09									
718	DPT-039	16-20	7.57	660	>9999	0.25	24.71	32	0.434	-170.3
720	039	16-20	7.58	685	>9999	0.18	24.68	34	0.450	-186.3
722	039	16-20	7.49	697	>9999	0.15	24.65	34	0.457	-176.8
724	SAMPLE									
736	DPT039	26-30	7.36	994	>9999	0.16	25.09	49	0.648	-146.8
738	039	26-30	7.29	1014	>9999	0.15	24.98	50	0.660	-160.9
740	039	26-30	7.16	1016	2442	0.61	24.91	50	0.662	-156.5
742	SAMPLE									
756	DPT-039	36-40	7.45	1012	>9999	0.71	25.86	49	0.649	-170.0
758	039	36-40	7.40	1019	>9999	0.27	25.78	49	0.652	-195.1
800	039	36-40	7.35	1018	5410	0.25	25.69	49	0.653	-203.8
802	SAMPLE									
828	DPT039	41-45	7.38	1092	>9999	0.32	26.27	53	0.694	-138.9
830	039	41-45	7.34	1100	>9999	0.26	26.07	53	0.701	-149.4
832	039	41-45	7.30	1099	8505	0.32	25.91	53	0.701	-150.6
834	SAMPLE									
849	DPT-039	46-50	7.43	1127	>9999	0.30	26.31	54	0.717	-182.2
851	039	46-50	7.34	1151	>9999	0.24	26.19	56	0.733	-196.3
853	039	46-50	7.30	1163	>9999	0.21	26.15	56	0.740	-199.7
855	SAMPLE									
914	DPT-039	61-65	7.59	4084	>9999	0.16	26.40	212	2.625	-181.0
916	039	61-65	7.53	4299	>9999	0.11	25.94	224	2.753	-189.3
918	039	61-65	7.45	4330	852	0.13	25.64	227	2.781	-176.8
920	SAMPLE									

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-040

Project Number: FR1681

Date: 8/5/09

	DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
949	DPT-040	8-12	7.64	654	>9999	0.11	28.41	28	0.375	-122.4
951	040	8-12	7.47	507	>9999	0.08	27.96	23	0.309	-123.8
953	040	8-12	7.39	469	25.8	0.08	27.64	21	0.289	-128.3
955	SAMPLE									
1002	DPT-040	16-20	7.14	1049	>9999	0.27	28.37	48	0.639	-154.5
1004	040	16-20	7.09	1025	5374	0.45	27.68	48	0.633	-164.5
1006	040	16-20	7.05	1004	1567	0.36	27.71	47	0.626	-167.0
1008	SAMPLE									
1018	DPT-040	26-30	7.10	1198	>9999	0.31	27.86	56	0.738	-162.4
1020	040	26-30	7.02	1183	5112	0.29	27.52	56	0.733	-160.0
1022	040	26-30	7.00	1169	4211	0.28	27.27	55	0.727	-161.8
1024	SAMPLE									
1038	DPT-040	36-40	7.53	1124	>9999	0.21	28.43	52	0.686	-224.2
1040	040	36-40	7.49	1120	5856	0.17	27.91	52	0.689	-221.6
1042	040	36-40	7.46	1111	1553	0.16	27.53	52	0.689	-225.3
1044	SAMPLE									
1336	DPT-040	41-45	7.44	1119	>9999	0.10	28.36	52	0.682	-161.1
1338	040	41-45	7.37	1117	>9999	0.08	28.42	51	0.681	-158.0
1340	040	41-45	7.34	1115	6680	0.08	28.29	51	0.681	-153.3
1342	SAMPLE									
1358	DPT-040	46-50	7.31	1142	>9999	0.17	29.97	51	0.678	-193.7
1400	040	46-50	7.24	1145	>9999	0.18	29.57	52	0.685	-192.3
1402	040	46-50	7.20	1142	1480	0.39	29.27	52	0.686	-188.0
1404	SAMPLE									
1423	DPT-040	61-65	7.45	4386	>9999	0.18	28.40	218	2.697	-185.4
1425	040	61-65	7.45	4517	>9999	0.14	27.95	226	2.784	-190.7
1427	040	61-65	7.43	4522	1329	0.15	27.43	229	2.808	-186.7
1429	SAMPLE									

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-041

Project Number: FR1681

Date: 8/5/09 & 8/6/09

	DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1506	DPT-041	8-12	7.27	861	>9999	0.12	32.52	36	0.478	-133.1
1508	041	8-12	7.19	756	>9999	0.11	31.31	32	0.436	-152.4
1510	041	8-12	7.08	709	45.7	0.26	30.69	31	0.414	-156.6
1512	SAMPLE									
1519	DPT041	16-20	7.71	650	>9999	0.08	30.38	28	0.381	-220.4
1521	041	16-20	7.68	613	1969	0.07	28.83	27	0.370	-215.3
1523	041	16-20	7.65	592	1361	0.08	27.94	27	0.364	-207.7
1525	SAMPLE									
1536	DPT-041	26-30	7.23	1373	>9999	0.48	30.23	62	0.811	-242.8
1538	041	26-30	7.20	1341	5616	0.30	29.09	61	0.807	-267.0
1540	041	26-30	7.15	1312	3867	0.24	28.53	61	0.798	-255.9
1542	SAMPLE									
1555	DPT-041	36-40	7.49	934	>9999	0.22	29.67	41	0.554	-332.2
1557	041	36-40	7.47	905	5450	0.17	29.04	41	0.545	-353.1
1559	041	36-40	7.41	889	1474	0.16	28.63	40	0.540	-375.0
1601	SAMPLE									
8/6/09				mS/cm						
0736	DPT0041	41-45	6.50	0.865	>9999	2.55	26.14	0.42	0.562	-111.0
0730	DPT0041	41-45	6.71	0.843	>9999	2.15	26.21	0.43	0.571	-130.7
0740	DPT0041	41-45	6.80	0.909	>999	2.35	26.21	0.44	0.580	-149.3
0754	DPT0041	46-50	7.40	0.805	>9999	1.59	26.26	0.62	0.815	-147.2
0756	DPT0041	46-50	7.37	0.829	>9999	1.59	26.15	0.63	0.825	-148.0
0758	DPT0041	46-50	7.36	0.842	>9999	1.58	26.06	0.65	0.846	-146.9
0818	DPT0041	61-65	7.27	2.930	>9999	2.12	26.76	1.52	1.938	-229.6
0820	DPT0041	61-65	7.37	3.155	>9999	1.92	26.77	1.61	2.026	-240.9
0822	DPT0041	61-65	7.42	3.274	>9999	1.72	26.74	1.66	2.083	-247.6

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0042

Project Number: FR1681

Date: 8/6/09

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0848	8-12	7.78	0.594	>9999	1.41	29.34	0.26	0.356	-121.5
0850	8-12	7.77	0.593	>9999	1.37	29.26	0.26	0.356	-114.9
0852	8-12	7.75	0.591	>9999	1.45	29.12	0.26	0.356	-108.1
0900	16-20	7.72	0.746	>9999	1.81	29.20	0.33	0.450	-141.3
0902	16-20	7.68	0.748	>9999	1.57	29.08	0.33	0.451	-151.2
0904	16-20	7.65	0.744	>9999	1.52	28.91	0.33	0.499	-156.8
0914	26-30	7.61	1.097	>9999	1.52	29.14	0.50	0.661	-148.7
0916	26-30	7.52	1.093	>9999	1.35	28.74	0.50	0.663	-153.4
0918	26-30	7.47	1.092	>9999	1.33	28.48	0.50	0.666	-155.5
0928	36-40	7.81	0.823	>9999	1.83	29.68	0.36	0.491	-160.6
0930	36-40	7.76	0.819	>9999	1.28	29.33	0.37	0.492	-170.6
0932	36-40	7.72	0.820	>9999	1.17	29.27	0.37	0.493	-177.1
0954	41-45	7.69	0.946	>9999	1.86	30.39	0.42	0.565	-286.6
0956	41-45	7.70	0.962	>9999	1.57	29.99	0.43	0.573	-286.2
0958	41-45	7.70	0.967	>9999	1.48	29.70	0.43	0.578	-285.3
1000	46-50	7.59	1.190	>9999	2.78	30.07	0.54	0.722	-177.0
1012	46-50	7.54	1.251	>9999	2.63	29.37	0.57	0.762	-185.8
1014	46-50	7.51	1.288	>9999	2.57	29.00	0.59	0.784	-191.0
1030	61-65	7.60	3.502	>9999	2.80	29.85	1.68	2.127	-196.5
1032	61-65	7.58	3.654	>9999	2.70	29.25	1.77	2.220	-218.5
1034	61-65	7.59	3.717	>9999	2.60	28.94	1.81	2.261	-225.2

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0043

Date: 8/6/09

Time

~~DPT~~ FR Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1152	8-12	7.42	1.059	>9999	2.58	29.95	0.47	0.629	-136.6
1154	8-12	7.38	1.060	>9999	2.32	29.85	0.47	0.630	-152.8
1156	8-12	7.36	1.051	>9999	2.24	29.69	0.47	0.625	-166.7
1208	16-20	7.37	0.929	>9999	2.87	28.24	0.43	0.571	-135.3
1210	16-20	7.31	0.939	>9999	2.66	27.94	0.44	0.582	-143.5
1212	16-20	7.28	0.950	>9999	2.70	27.67	0.44	0.590	-145.2
1222	26-30	7.44	0.809	>9999	2.62	27.92	0.37	0.499	-119.0
1224	26-30	7.41	0.806	>9999	2.49	27.54	0.37	0.499	-123.8
1226	26-30	7.38	0.800	>9999	2.48	27.19	0.37	0.498	-126.8
1236	36-40	7.52	0.904	>9999	2.66	28.40	0.41	0.554	-152.8
1238	36-40	7.47	0.903	>9999	2.50	27.67	0.42	0.557	-160.0
1240	36-40	7.45	0.902	>9999	2.45	27.58	0.42	0.559	-164.6
1306	41-45	7.50	0.933	>9999	2.80	28.57	0.43	0.570	-155.6
1308	41-45	7.50	0.939	>9999	2.69	28.29	0.43	0.576	-167.4
1310	41-45	7.51	0.944	>9999	2.65	27.95	0.44	0.583	-175.1
1320	46-50	7.80	0.927	>9999	2.68	29.07	0.42	0.561	-117.3
1322	46-50	7.70	0.929	>9999	2.58	28.63	0.42	0.567	-131.6
1324	46-50	7.63	0.928	>9999	2.54	28.07	0.43	0.571	-138.3
1508	61-65	7.61	3.475	>9999	2.64	28.78	1.69	2.128	-173.6
1510	61-65	7.57	3.513	>9999	2.08	28.21	1.73	2.160	-186.0
1512	61-65	7.55	3.529	>9999	2.02	27.83	1.75	2.181	-195.1

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0044

Project Number: FR1681

Date: 8/6/09

Time

DPT ~~Location~~ IKB	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1556	31-35	7.61	1.103	>9999	3.74	29.58	0.49	0.657	-171.3
1558	31-35	7.52	1.093	>9999	3.78	29.42	0.49	0.653	-180.3
1600	31-35	7.47	1.084	>9999	3.76	29.13	0.49	0.650	-184.2
1614	36-40	7.60	1.017	>9999	3.26	29.90	0.45	0.607	-153.6
1616	36-40	7.55	1.022	>9999	3.04	29.76	0.46	0.610	-161.3
1618	36-40	7.53	1.024	>9999	2.97	29.56	0.46	0.613	-166.9
1628	41-45	7.65	1.028	>9999	3.17	30.25	0.46	0.609	-171.5
1630	41-45	7.57	1.033	>9999	3.05	30.16	0.46	0.611	-178.8
1632	41-45	7.55	1.032	>9999	2.99	30.04	0.46	0.612	-184.9
1646	46-50	7.66	1.276	>9999	2.55	30.02	0.58	0.772	-161.9
1648	46-50	7.59	1.318	>9999	2.47	29.86	0.60	0.799	-170.4
1650	46-50	7.55	1.348	>9999	2.45	29.63	0.62	0.816	-175.8

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM
DPT Location: 0045 DPT0045

Project Number: FR1681
Date: 01/25/10

* may be a problem w/ DO sensor

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0900 45	16-20	7.41	0.572	—	11.03	24.29	0.26	0.356	-129.9
		7.39	0.516	—	6.22	24.30	0.25	0.334	-129.7
		7.39	0.511	—	5.66	24.25	0.24	0.330	-127.2
0910	26-30	8.00	0.577	—	12.76	22.52	0.28	0.380	-178.5
		7.83	0.589	—	9.01	22.98	0.29	0.387	-180.5
		7.74	0.599	—	7.50	23.19	0.29	0.392	-177.0
0925	36-40	7.71	0.733	—	14.75	22.33	0.37	0.488	-174.9
		7.560	0.753	—	9.25	23.19	0.37	0.493	-179.0
		7.61	0.760	—	7.22	23.28	0.37	0.495	-180.4
0940	41-45	7.57	0.843	—	12.62	22.84	0.42	0.557	-166.8
		7.46	0.865	—	9.89	23.20	0.43	0.569	-167.3
		7.43	0.880	—	8.22	23.35	0.43	0.576	-166.1
0955	46-50	7.92	0.821	—	16.35	21.61	0.42	0.560	-168.4
		7.71	0.880	—	11.06	22.02	0.44	0.589	-168.8
		7.58	0.920	—	9.11	22.52	0.46	0.608	-165.6
1010	56-60	7.74	2.290	—	11.03	22.41	1.17	1.467	-214.9
		7.81	2.370	—	7.50	23.48	1.24	1.574	-222.4
		7.78	2.448	—	7.00	23.48	1.27	1.610	-225.1
1402	8-12	7.38	0.583	—	2.92	24.19	0.28	0.378	-141.5
		7.29	0.582	—	2.00	24.25	0.28	0.378	-143.6
		7.27	0.581	—	1.74	24.24	0.28	0.377	-145.2

Note: Insert units if not provided on sheet.

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DPT-0045-____.0-20100125
time depth

DPT GEOCHEMICAL DATA FORM

DPT Location: 0046 DPT0046

Project Number: FR1681

Date: 01/25/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1100 46	16-20	7.75	0.509	—	3.64	24.21	0.24	0.328	-164.6
		7.61	0.503	—	2.40	24.23	0.24	0.326	-166.4
		7.59	0.501	—	2.02	24.23	0.24	0.325	-167.1
1115	26-30	8.00	0.448	—	9.46	23.49	0.22	0.287	-204.8
		7.91	0.4601	—	5.37	23.52	0.22	0.299	-214.5
		7.90	0.4606	—	3.91	23.606	0.22	0.304	-217.1
1125	36-40	7.62	0.790	—	5.49	23.23	0.37	0502	-197.1
		7.57	0.778	—	3.20	23.51	0.38	0.589	-197.2
		7.54	0.7860	—	2.63	23.60	0.39	0.514	-196.4
1235 ~~1255~~	41-45	7.29	0.892	—	4.21	23.91	0.44	0.580	-158.8
		7.27	0.893	—	3.03	23.90	0.44	0.581	-156.2
		7.25	0.894	—	2.54	23.88	0.44	0.581	-153.6
1250	46-50	7.50	0.865	—	6.53	22.83	0.44	0.579	-163.4
		7.42	0.904	—	3.30	23.07	0.45	0.596	-162.0
		7.37	0.9260	—	2.45	23.24	0.46	0.609	-160.4
1310	50-60			—	not	enough	water		
				—	for	~~sample~~	readings		
				—					
1340	8-12	7.18	0.697	—	6.21	22.25	0.34	0.449	-113.3
		7.11	0.681	—	2.91	22.28	0.32	0.430	-119.7
		7.09	0.651	—	2.24	22.22	0.31	0.414	-123.6

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: ~~DPT00~~47 DPT0047

Project Number: FR1681

Date: 01/25/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1415 47	8-12	7.34	0.463	—	3.80	24.49	0.22	0.301	-99.3
		7.27	0.462	—	2.19	24.30	0.22	0.299	-101.5
		7.24	0.458	—	1.83	24.24	0.22	0.296	-103.1
1425	16-20	7.36	0.592	—	8.00	24.88	0.27	0.360	-177.9
		7.37	0.555	—	3.26	24.94	0.27	0.361	-179.2
		7.37	0.555	—	2.31	24.96	0.27	0.360	-178.0
	26-30								
1450	36-40	7.38	0.763	—	11.52	24.92	0.37	0.497	-159.2
		7.35	0.767	—	5.01	25.06	0.38	0.502	-153.8
		7.30	0.776	—	2.65	25.07	0.38	0.506	-152.8
1525	41-45	7.43	0.779	—	11.00	25.23	0.39	0.523	-147.4
		7.36	0.813	—	4.46	25.60	0.40	0.535	-142.0
		7.33	0.827	—	2.77	25.61	0.41	0.540	-140.4
1540	46-50	7.40	0.878	—	6.01	24.77	0.44	0.589	-166.7
		7.34	0.918	—	2.63	24.92	0.46	0.605	-164.7
		7.29	0.938	—	1.83	24.91	0.46	0.613	-161.7
1602	56-60	7.25	1.960	—	5.55	24.20	1.03	1.325	-140.2
		7.05	1.346	—	2.30	24.22	1.07	1.369	-144.6
		7.19	2.124	—	1.71	24.28	1.09	1.388	-145.3
1440	36-30	7.65	0.546	—	5.11	24.95	0.27	0.361	-182.8
		7.60	0.556	—	2.40	24.99	0.27	0.362	-188.7
		7.59	0.558	—	1.95	24.99	0.27	0.363	-188.1

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: 0048 DPT0048

Project Number: FR1681

Date: 1/26/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0800									
448	8-12	10.31	0.524	—	1.75	15.47	0.26	0.352	-101.7
		10.97	0.559	—	0.85	17.16	0.28	0.379	-122.7
		11.07	0.593	—	0.104	17.69	0.29	0.392	-127.7
0810	16-20	8.10	0.578	—	2.61	20.89	0.29	0.383	-199.3
		7.90	0.596	—	1.61	21.70	0.29	0.396	-196.7
		7.81	0.602	—	1.31	21.89	0.29	0.393	-194.1
0825	26-30	7.87	0.769	—	7.61	17.58	0.39	0.526	-177.1
		7.56	0.829	—	2.88	19.51	0.42	0.551	-167.0
		7.43	0.856	—	1.99	20.22	0.43	0.563	-162.9
0845	36-40	7.47	0.773	—	2.03	20.04	0.38	0.507	-176.6
		7.42	0.785	—	1.51	20.65	0.39	0.512	-174.6
		7.38	0.790	—	1.25	20.96	0.39	0.518	-172.1
0900	41-45	7.74	0.824	—	7.45	19.41	0.42	0.554	-160.4
		7.60	0.867	—	3.12	19.30	0.43	0.575	-153.2
		7.47	0.896	—	1.93	19.74	0.45	0.590	-146.1
0915	46-50	8.03	0.759	—	9.61	18.99	0.39	0.518	-142.4
		7.67	0.818	—	2.11	19.68	0.41	0.545	-142.7
		7.54	0.854	—	1.46	20.22	0.43	0.571	-138.5
0940	56-60	7.60	2.409	—	14.04	18.78	1.28	1.613	-165.3
		7.51	2.512	—	3.54	19.48	1.33	1.675	-165.9
		7.44	2.609	—	1.81	20.11	1.44	1.744	-168.3

Note: Insert units if not provided on sheet.

*DO not calibrated

DPT GEOCHEMICAL DATA FORM

DPT Location 0049 DPT0049

Project Number: FR1681

Date: 1/26/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0049	26-30	7.28	0.744	—	6.25	22.04	0.36	0.482	~~-108~~ -140.8
		7.25	0.739	—	4.00	22.29	0.36	0.479	-130.5
		7.21	0.733	—	2.06	22.45	0.36	0.476	-127.8
	36-40	7.66	0.905	—	10.44	21.94	0.46	0.613	-203.3
		7.60	0.955	—	4.36	22.77	0.47	0.626	-204.9
		7.57	0.969	—	2.20	22.93	0.48	0.633	-206.4
	41-45	7.70	1.019	—	8.54	22.88	0.50	0.655	-199.4
		7.61	1.003	—	3.50	23.25	0.49	0.650	-202.3
		7.56	0.998	—	1.69	23.60	0.49	0.649	-199.7
	46-50	7.42	0.981	—	16.01	22.78	0.48	0.636	-169.0
		7.32	0.981	—	7.11	23.15	0.49	0.640	-163.1
		7.26	0.990	—	3.17	23.33	0.49	0.646	-158.0
	56-60	7.42	2.336	—	8.26	23.44	1.20	1.518	-201.3
		7.39	2.339	—	3.30	23.62	1.20	1.526	-204.5
		7.38	2.356	—	1.75	23.73	1.21	1.536	-208.1

Note: Insert units if not provided on sheet.

* DO not calibrated

DPT GEOCHEMICAL DATA FORM

DPT Location: 0050 DPT0050

Project Number: FR16081

Date: 1/26/10

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1210	0050	8-12	7.52	0.699	—	14.01	23.21	0.35	0.458	-80.3
			7.32	0.689	—	9.62	23.43	0.32	0.430	-83.4
			7.24	0.642	—	7.36	23.32	0.30	0.405	-88.0
1225		16-20	7.05	0.915	—	10.69	24.34	0.45	0.598	-152.1
			7.02	0.922	—	5.80	24.37	0.45	0.602	-152.2
			6.99	0.928	—	2.40	24.57	0.46	0.605	-147.6
1235		26-30	7.14	1.053	—	4.41	23.71	0.52	0.685	-156.3
			7.03	1.055	—	1.61	24.06	0.52	0.687	-154.4
			7.00	1.058	—	1.22	24.23	0.52	0.687	-152.2
1300		36-40	7.35	0.932	—	7.81	24.01	0.46	0.610	-188.9
			7.31	0.941	—	7.80	24.50	0.46	0.614	-190.4
			7.29	0.949	—	7.28	24.67	0.47	0.620	-190.9
1315		41-45	7.35	0.947	—	3.47	24.90	0.47	0.628	-191.5
			7.30	0.971	—	1.15	24.95	0.48	0.635	-193.0
			7.29	0.981	—	0.87	24.99	0.48	0.640	-193.0
1330		46-50	7.33	0.972	—	10.11	24.15	0.48	0.633	-175.2
			7.25	0.982	—	2.47	24.40	0.49	0.643	-172.8
			7.22	0.995	—	1.36	24.49	0.49	0.651	-169.0
1345		56-60	7.26	2.406	—	5.11	24.24	1.23	1.561	-174.9
			7.24	2.406	—	1.76	24.33	1.24	1.43	-171.4
			7.23	2.426	—	1.57	24.37	1.26	1.592	-186.1

Note: Insert units if not provided on sheet.

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*DO not calibrated

DPT GEOCHEMICAL DATA FORM

DPT Location: 0451 DPT0051

Project Number: FR1681

Date: 1/26/18 1/27/18

1/26/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1430 451	26-30	7.08	1.127	—	13.71	25.75	0.55	0.725	~~-~~ -152.2
		7.01	1.062	—	6.85	25.97	0.52	0.680	-149.4
		6.94	1.033	—	4.07	25.88	0.50	0.665	-143.4
1445	36-40	7.24	1.272	—	17.00	25.43	0.64	0.835	-160.3
		7.08	1.287	—	5.43	25.77	0.64	0.838	-163.7
		7.02	1.284	—	1.78	25.89	0.64	0.832	-162.8
1455	41-45	7.24	1.067	—	6.79	25.18	0.51	0.675	-165.0
		7.17	1.028	—	2.21	25.33	0.50	0.658	-162.6
		7.14	1.007	—	1.22	25.29	0.49	0.648	-159.2
1/27/10 0755	46-50	6.94	1.054	—	8.39	16.20	0.53	0.699	-118.8
		6.97	1.082	—	3.92	17.50	0.54	0.705	-125.0
		7.05	1.089	—	2.65	18.34	0.54	0.710	-129.1
0815	56-60	7.37	2.816	—	8.82	14.75	1.52	1.901	-122.2
		7.29	2.973	—	3.62	16.07	1.59	1.987	-125.0
		7.25	3.101	—	2.28	16.94	1.65	2.061	-126.6

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: 0852→I DPT0052

Project Number: FR1681

Date: 1/27/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0850	452	26-30	7.41	1.059	—	1.07	17.81	0.53	0.689	-124.3
			7.29	1.064	—	1.05	19.69	0.53	0.694	-125.1
			7.23	1.066	—	0.11	20.48	0.53	0.695	-120.6
0900		36-40	7.22	1.212	—	16.01	19.75	0.61	0.793	-116.0
			7.10	1.228	—	6.33	20.19	0.62	0.803	-108.4
			7.02	1.238	—	2.84	20.85	0.62	0.806	-105.9
0920		41-45	7.27	1.164	—	12.01	19.64	0.59	0.772	-136.3
			7.20	1.193	—	4.39	20.52	0.60	0.783	-137.0
			7.15	1.214	—	2.44	21.04	0.61	0.801	-139.0
0935		46-50	7.37	1.329	—	10.90	17.72	0.69	0.892	-141.2
			7.35	1.389	—	3.63	18.67	0.71	0.917	-147.2
			7.32	1.424	—	1.84	19.86	0.72	0.936	-147.1
0955		56-60	7.43	2.753	—	13.03	18.11	1.46	1.836	-135.7
			7.32	2.891	—	4.06	18.58	1.49	1.951	-138.1
			7.28	2.559	—	1.85	19.49	1.34	1.697	-138.1
1010		61-65	7.38	2.927	—	5.04	18.18	1.54	1.919	-167.9
			7.39	2.982	—	0.96	19.16	1.58	1.971	-173.1
			7.40	3.065	—	0.53	19.90	1.62	2.026	-175.5

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: 0053 → H DPT0053

Project Number: FR1681

Date: 1/27/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1045									
	45B	26-30	7.62	1.056	—	14.27	23.26	0.52	0.683	-174.9
			7.40	1.028	—	6.03	24.13	0.50	0.661	-177.7
			7.35	1.012	—	3.36	24.23	0.50	0.656	-176.3
1100		30-40	7.30	1.240	—	9.03	24.22	0.62	0.807	-159.7
			7.21	1.243	—	3.46	24.88	0.62	0.812	-160.2
			7.16	1.256	—	1.72	25.06	0.63	0.818	-159.8
1120		41-45	7.30	1.148	—	7.25	24.01	0.58	0.755	-141.1
			7.20	1.160	—	2.14	24.42	0.57	0.751	-139.6
			7.16	1.153	—	1.19	24.67	0.57	0.747	-136.0
1135		46-50	7.47	1.031	—	11.21	23.55	0.51	0.671	-175.4
			7.37	1.035	—	2.76	24.03	0.51	0.677	-175.4
			7.32	1.047	—	1.35	24.32	0.52	0.684	-173.8
1225		56-60	7.61	2.922	—	4.65	24.47	1.51	1.893	-189.5
			7.44	2.986	—	1.66	24.76	1.53	1.921	-194.0
			7.40	2.973	—	1.14	24.86	1.55	1.948	-195.3

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: E 0454 → J DPT0054

Date: 1/27/10

DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1305 0454	26-30	7.05	1.687	—	13.80	24.73	0.84	1.083	-154.7
		6.91	1.647	—	10.64	24.95	0.82	1.059	-141.0
		6.83	1.617	—	7.51	24.84	0.81	1.041	-132.8
1320									
	36-40	7.20	1.381	—	7.85	25.32	0.69	0.895	-162.4
		7.18	1.375	—	3.00	25.28	0.69	0.893	-167.2
		7.16	1.375	—	1.57	25.27	0.69	0.894	-170.2
1335	41-45	7.30	1.133	—	7.05	24.91	0.56	0.729	-173.5
		7.27	1.115	—	2.15	24.97	0.55	0.724	-176.5
		7.24	1.112	—	1.17	25.05	0.55	0.724	-178.3
1355	46-50	7.24	1.544	—	10.11	25.50	0.78	1.015	-145.2
		7.19	1.588	—	2.79	25.34	0.82	1.059	-145.7
		7.15	1.659	—	1.31	25.14	0.85	1.097	-144.3
1410									
	56-60	7.41	3.247	—	6.29	23.79	1.69	2.092	-175.1
		7.35	3.208	—	1.52	23.94	1.67	2.081	-180.4
		7.32	3.205	—	1.00	24.03	1.68	2.090	-181.8
1430	61-65	7.43	3.478	—	11.42	23.34	1.78	2.201	-203.4
		7.43	3.356	—	7.24	23.60	1.76	2.180	-210.4
		7.43	3.360	—	4.77	23.78	1.78	2.207	-215.6

Note: Insert units if not provided on sheet.

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$1+6+5+2$
$=19$

DPT GEOCHEMICAL DATA FORM
DPT Location: 0455 → K DPT0055

Project Number: FR11681
Date: 1/27/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1515									
0455	26-30	7.31	1.315	—	10.34	24.57	0.65	0.852	-137.7
		7.11	1.295	—	8.29	24.82	0.64	0.831	-141.5
		7.05	1.258	—	6.39	25.07	0.61	0.801	-142.1
1530	36-40	7.30	1.214	—	6.54	24.73	0.60	0.784	-174.2
		7.24	1.196	—	3.22	25.26	0.59	0.777	-181.6
		7.23	1.197	—	2.00	25.27	0.60	0.782	-185.8
1545	41-45	7.24	1.296	—	10.01	24.22	0.64	0.840	-161.1
		7.25	1.290	—	4.37	24.69	0.64	0.838	-165.2
		7.22	1.293	—	1.93	24.90	0.65	0.846	-169.5
1600	46-50	7.23	1.419	—	9.14	24.05	0.72	0.931	-153.4
		7.17	1.442	—	3.66	24.26	0.73	0.943	-157.3
		7.15	1.457	—	1.74	24.39	0.73	0.953	-157.7
1620	56-60	7.31	3.063	—	3.03	23.33	1.60	2.089	-176.9
		7.29	3.135	—	0.86	23.64	1.66	2.069	-178.7
		7.28	3.214	—	0.59	23.76	1.69	2.112	-178.8
1645	61-65	7.37	3.251	—	8.05	22.59	1.71	2.188	-189.3
		7.38	3.306	—	5.55	22.89	1.74	2.161	-196.3
		7.38	3.346	—	4.30	23.03	1.76	2.190	-200.1

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: 0456 → P DPT0056

Project Number: FR16816

Date: ~~1~~ 1/28/10

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0800	0456	8-12	7.20	0.809	—	2.20	17.49	0.40	0.525	-150.0
			7.30	0.808	—	1.47	17.63	0.40	0.527	-153.7
			7.32	0.812	—	1.23	17.64	0.40	0.528	-154.8
0810		16-20	7.44	0.799	—	10.22	18.99	0.40	0.529	-152.6
			7.36	0.826	—	4.02	20.28	0.41	0.542	-157.9
			7.33	0.840	—	1.81	21.07	0.42	0.550	-159.4
0825		26-30	7.41	1.084	—	12.33	18.35	0.55	0.725	-139.9
			7.36	1.121	—	4.57	19.54	0.56	0.735	-147.4
			7.33	1.138	—	2.04	20.11	0.57	0.745	-151.1
0835		36-40	7.45	0.882	—	7.62	19.64	0.44	0.583	-150.9
			7.38	0.898	—	~~7~~ 2.44	20.57	0.44	0.586	-156.9
			7.35	0.904	—	1.24	20.91	0.45	0.587	-159.2
0850		41-45	7.35	1.133	—	4.11	19.90	0.56	0.732	-138.6
			7.23	1.139	—	1.30	21.78	0.57	0.752	-139.8
			7.19	1.163	—	0.96	22.09	0.58	0.759	-140.1
0910		46-50	7.43	1.327	—	3.08	19.96	0.68	0.878	-146.9
			7.35	1.359	—	0.95	20.34	0.69	0.889	-148.1
			7.31	1.377	—	0.65	20.84	0.69	0.889	-147.9
0945		56-60	7.45	2.512	—	4.38	20.73	1.29	1.618	-147.5
			7.37	2.483	—	1.16	22.10	~~1.28~~ 1.32	1.655	-159.1
			7.35	2.570	—	0.71	22.52	1.34 / 1.31	1.691	-162.8

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: 0057 → L DPT0057

Project Number: FR1681

Date: 1/28/10

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1010	0457	26-30	7.28	1.166	—	9.40	25.17	0.57	0.752	-129.9
			7.17	1.156	—	6.79	25.54	0.57	0.743	-131.5
			7.12	1.135	—	4.56	26.11	0.56	0.733	-129.7
1025		36-40	7.48	1.211	—	4.63	25.68	0.60	0.787	-161.7
			7.39	1.214	—	2.05	26.34	0.60	0.791	-168.6
			7.35	1.218	—	0.95	26.44	0.60	0.792	-172.4
1045		41-45	7.38	1.361	—	3.44	26.66	0.68	0.890	-156.0
			7.24	1.374	—	0.88	27.16	0.69	0.897	-155.7
			7.22	1.382	—	0.59	27.15	0.69	0.8101	-155.8
1100		46-50	7.28	1.638	—	5.91	27.41	0.82	1.062	-150.6
			7.20	1.635	—	1.30	27.59	0.82	1.064	-153.9
			7.17	1.638	—	0.64	27.74	0.82	1.066	-155.7
1120		56-60	7.34	2.861	—	13.23	25.91	1.45	1.822	-159.0
			7.28	2.829	—	2.31	26.80	1.48	1.866	-169.3
			7.27	2.896	—	0.89	26.82	1.51	1.906	-174.9

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: 0458→M DPT0058

Project Number: FR16081

Date: 1/28/16

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1225	0458	26-30	7.48	1.182	—	10.20	26.70	0.58	0.759	-166.7
			7.22	1.138	—	6.05	27.17	0.55	0.727	-160.4
			7.08	1.100	—	3.68	27.16	0.54	0.709	-151.6
		~~30-40~~								
1240		36-40	7.01	1.173	—	7.01	26.66	0.58	0.763	-124.5
			6.93	1.173	—	2.62	27.03	0.58	0.763	-127.0
			6.89	1.175	—	1.14	27.18	0.58	0.764	-127.8
1255		41-45	7.07	1.409	—	6.11	27.31	0.71	0.923	-127.7
			6.99	1.428	—	1.78	27.45	0.72	0.935	-128.1
			6.95	1.443	—	0.77	27.49	0.72	0.941	-127.9
1310		46-50	7.13	1.437	—	3.65	27.94	0.71	0.929	-143.1
			7.07	1.428	—	0.82	28.07	0.71	0.929	-145.5
			7.04	1.431	—	0.42	28.11	0.71	0.932	-146.5
1330		56-60	7.38	3.270	—	5.29	28.08	1.67	2.087	-157.3
			7.32	3.187	—	1.33	27.84	1.64	2.057	-164.2
			7.29	3.160	—	0.71	27.75	1.64	2.052	-168.1
1350		61-65	7.51	3.807	—	7.10	28.09	2.00	2.472	-167.1
			7.43	3.776	—	4.32	28.11	1.97	2.431	-173.6
			7.39	3.746	—	2.78	28.06	1.96	2.436	-177.3

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: 0459 -> N DPT0059

Project Number: FR1681

Date: 1/28/10

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1435	0459	26-30	7.43	1.127	—	7.24	26.56	0.55	0.717	-143.9
			7.24	1.081	—	5.55	26.66	0.52	0.690	-142.8
			7.15	1.045	—	4.32	26.58	0.51	0.669	-140.0
1450		36-40	7.05	1.081	—	5.08	25.92	0.54	0.712	-129.5
			6.91	1.109	—	2.60	26.47	0.55	0.722	-126.3
			6.87	1.112	—	1.41	26.54	0.55	0.724	-125.3
1505		41-45	7.01	1.227	—	6.36	26.26	0.61	0.804	-134.3
			6.90	1.245	—	2.11	26.83	0.62	0.814	-136.8
			6.86	1.256	—	0.88	26.92	0.62	0.819	-139.3
1525		46-50	7.02	1.383	—	11.28	24.67	0.70	0.919	-156.1
			7.00	1.435	—	2.73	25.60	0.73	0.948	-154.1
			6.91	1.495	—	1.00	25.88	0.76	0.987	-150.5
1540		56-60	7.16	2.325	—	5.25	22.87	1.25	1.584	-131.9
			7.07	2.492	—	1.42	23.49	1.31	1.668	-142.0
			7.02	2.628	—	0.66	23.96	1.38	1.745	-152.5

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: 0460-60 DPT0060

Project Number: FR1681

Date: 1/28/10 1/29/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1/28/10 1615 0460	26-30	7.34	1.625	—	11.24	24.33	0.81	1.045	-115.2
		7.16	1.601	—	8.93	24.68	0.80	1.036	-125.1
		7.10	1.588	—	6.76	25.07	0.80	1.029	-131.6
1640	36-40	7.56	1.059	—	8.13	25.91	0.52	0.680	-153.4
		7.42	1.035	—	3.03	26.19	0.51	0.669	-160.2
		7.36	1.026	—	1.32	26.67	0.50	0.665	-163.0
1/29/10 0730	41-45	6.50	1.257	—	2.54	22.77	0.66	0.861	-80.6
		6.48	1.339	—	1.15	23.07	0.67	0.879	-98.6
		6.58	1.358	—	0.89	23.30	0.68	0.881	-108.3
	46-50	Refusal							
				—					
	56-60			—					
				—					
	61-65			—					
				—					
				—					

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: 0461 -> G DPT0061

Date: 1/29/10

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0815	0461	26-30	7.50	1.145	—	13.05	19.61	0.57	0.744	-126.7
			7.42	1.148	—	3.00	20.94	0.57	0.750	-133.3
			7.35	1.156	—	1.31	21.89	0.58	0.754	-131.0
0825		36-40	7.47	1.062	—	5.07	22.22	0.53	0.699	-131.8
			7.44	1.091	—	1.29	23.16	0.54	0.710	-136.4
			7.31		—	~~10~~.88	23.65	0.54	0.706	-131.5
0845		41-45	7.43	1.427	—	8.19	22.65	0.72	0.935	-128.8
			7.35	1.445	—	2.66	23.73	0.73	0.949	-130.9
			7.30	1.468	—	1.15	24.32	0.74	0.961	-133.2
0900		46-50	7.35	1.761	—	1.35	23.77	0.92	1.184	-138.1
			7.29	1.851	—	0.67	24.40	0.95	1.218	-139.5
			7.27	1.887	—	0.53	24.62	0.96	1.237	-140.6
0930		56-60	7.48	2.845	—	2.55	23.67	1.48	1.860	-162.8
			7.42	~~2.845~~ 2.920	—	0.82	24.31	1.53	1.922	-166.5
			7.36	2.977	—	0.47	24.53	1.56	1.962	-165.1
0950		61-65	7.50	3.285	—	8.65	23.27	1.69	2.101	-156.2
			7.46	3.248	—	4.43	24.81	1.72	2.150	-164.5
			7.42	3.336	—	3.21	25.19	1.76	2.191	-169.2

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: 0462 → in parking lot DPT0062

Date: 1/29/10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1020 0462	8-12	7.19	1.050	—	8.46	23.40	0.51	0.612	-87.2
		7.07	1.006	—	5.70	23.52	0.49	0.648	-90.9
		7.01	0.999	—	3.56	23.60	0.48	0.633	-94.1
1030	16-20	7.26	0.770	—	3.47	25.41	0.38	0.505	-132.5
		7.25	0.778	—	1.57	25.69	0.38	0.504	-139.1
		7.25	0.774	—	0.62	25.80	0.38	0.502	-139.5
1040	26-30	7.35	0.942	—	7.16	25.28	0.46	0.613	-112.4
		7.27	0.942	—	1.80	24.79	0.46	0.612	-115.3
		7.23	0.941	—	0.71	25.01	0.46	0.611	-116.1
1050	36-40	7.53	0.855	—	8.64	24.71	0.53	0.700	-128.4
		7.34	1.085	—	2.23	25.18	0.54	0.706	-131.6
		7.29	1.082	—	0.99	25.37	0.53	0.701	-132.0
1120	41-45	7.41	1.340	—	4.38	26.19	0.67	0.871	-144.3
		7.24	1.350	—	0.75	26.29	0.67	0.881	-145.4
		7.20	1.360	—	0.48	26.21	0.68	0.885	-144.8
1145	46-50	7.47	1.350	—	4.19	25.46	0.67	0.880	-142.6
		7.36	1.360	—	1.27	25.54	0.68	0.889	-147.6
		7.31	1.373	—	0.57	25.54	0.69	0.897	-149.0
1200	56-60	7.48	2.747	—	8.30	25.59	1.45	1.831	-119.8
		7.37	2.851	—	3.27	25.68	1.49	1.871	-137.2
		7.33	2.894	—	1.22	25.75	1.51	1.899	-145.6

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: 0463->R DPT0063

Project Number: FR1681

Date: 1/29/10

	DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1305	0463	26-30	7.26	1.371	—	6.41	27.30	0.67	0.867	-137.7
			7.16	1.381	—	3.78	27.25	0.66	0.862	-136.6
			7.11	1.314	—	2.16	27.12	0.65	0.849	-131.1
1320		36-40	7.43	1.682	—	6.43	27.51	0.85	@1.09	-123.6
			7.22	1.688	—	2.80	27.50	0.85	1.098	-129.0
			7.15	1.691	—	1.25	27.49	0.85	1.099	-130.0
1340		41-45	7.13	1.586	—	0.52	26.73	0.80	1.032	-134.7
			7.11	1.589	—	0.39	26.65	0.80	1.034	-133.8
			7.08	1.592	—	0.35	26.55	0.80	1.035	-131.3
1358		46-50	7.21	1.755	—	0.70	26.20	0.89	1.157	-130.1
			7.18	1.799	—	0.35	26.17	0.33	1.183	-131.9
			7.15	1.836	—	0.33	26.06	0.32	1.201	-131.8
1415		56-60	7.05	3.016	—	1.77	25.90	1.60	2.001	-133.7
			7.07	3.102	—	0.70	25.92	1.63	2.037	-138.9
			7.09	3.151	—	0.60	25.93	1.65	2.064	-142.5

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0964 (AI)

Project Number: FR1681

Date: 2/1/10

DPT Location (Time)	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0805	28	6.91	1.166	-	9.52	22.37	0.59	0.771	-100.8
0807	28	6.86	1.188	-	1.78	23.83	0.59	0.770	-130.5
0809	28	6.79	1.163	-	1.19	23.90	0.58	0.754	-128.9
	Sampled @ 0810								
0821	38	7.88	1.288	-	8.57	20.77	0.64	0.833	-141.2
0823	38	7.16	1.330	-	1.11	23.62	0.67	0.871	-132.2
0825	38	7.08	1.354	-	0.91	23.71	0.68	0.880	-125.5
	Sampled @ 0826								
0839	43	7.37	1.556	-	6.82	21.36	0.79	1.022	-172.6
0841	43	7.21	1.641	-	1.18	23.34	0.83	1.069	-168.9
0843	43	7.16	1.645	-	0.79	23.78	0.83	1.068	-160.6
	Sampled @ 0844								
0857	48	7.58	1.692	-	10.82	20.59	0.85	1.087	-142.7
0859	48	7.20	1.774	-	1.13	23.22	0.90	1.157	-143.8
0901	48	7.13	1.772	-	0.75	23.55	0.90	1.151	-129.8
	Sampled @ 0902								
0917	588	7.37	3.610	-	2.56	21.74	1.95	2.422	-165.9
0919	588	7.23	3.860	-	1.13	22.84	2.06	2.535	-160.5
0921	588	7.16	3.962	-	0.76	23.16	2.10	2.581	-153.7
	Sampled @ 0922								
0933	563	7.40	3.998	-	0.70	21.36	2.14	2.625	-191.9
0935	563	7.41	4.053	-	0.63	22.41	2.16	2.647	-197.0
0937	563	7.41	4.079	-	0.62	22.76	2.17	2.661	-197.7
	Sampled at 0938								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0065 (AH)

Date: 2/11/10

Time DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1018	28	7.33	0.869	—	1.74	22.92	0.43	0.564	-156.9
1020	28	7.23	0.863	—	0.98	22.15	0.42	0.556	-150.2
1022	28	7.16	0.849	—	0.89	22.25	0.41	0.549	-144.6
	Sampled at 1023								
1033	38	7.24	0.930	—	1.54	22.86	0.46	0.610	-185.8
1035	38	7.26	0.941	—	1.10	22.92	0.47	0.616	-186.3
1037	38	7.27	0.951	—	0.89	24.43	0.47	0.623	-183.1
	Sampled at 1038								
1046	43	7.31	1.065	—	0.80	22.22	0.53	0.702	-232.8
1048	43	7.31	1.096	—	0.50	23.92	0.49	0.721	-236.2
1050	43	7.30	1.111	—	0.48	24.59	0.48	0.724	-239.2
	Sampled at 1051								
1104	48	7.36	1.272	—	0.66	21.10	0.66	0.872	-256.7
1106	48	7.35	1.395	—	0.51	23.01	0.72	0.934	-259.9
1108	48	7.34	1.448	—	0.49	23.60	0.72	0.936	-262.8
	Sampled at 1109								
1122	58	7.40	3.876	—	0.62	20.88	1.96	2.435	-254.8
1124	58	7.40	3.973	—	0.52	20.82	2.08	2.558	-257.5
1126	58	7.39	4.013	—	0.50	22.46	2.12	2.603	-260.1
	Sampled at 1127								
1138	63	7.43	4.250	—	0.50	21.96	2.26	2.762	-251.0
1140	63	7.43	4.244	—	0.48	22.59	2.26	2.759	-252.3
1142	63	7.43	4.238	—	0.47	22.74	2.25	2.754	-253.6
	Sampled at 1143								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0066 (AG)

Date: 2/11/10

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1255	28	7.17	1.382	—	1.00	22.28	0.69	0.896	-155.3
1257	28	7.17	1.360	—	0.94	22.66	0.68	0.883	-158.9
1259	28	7.20	1.345	—	0.86	22.64	0.67	0.873	-164.7
	Sampled at		1300						
1310	38	7.24	1.260	—	0.67	21.00	0.64	0.840	-207.9
1312	38	7.24	1.330	—	0.60	20.90	0.69	0.902	-210.9
1314	38	7.24	1.437	—	0.55	21.43	0.74	0.954	-215.2
	Sampled at		1315						
1327	43	7.32	1.467	—	0.82	22.10	0.75	0.957	-219.6
1329	43	7.31	1.513	—	0.76	20.00	0.77	0.986	-221.9
1331	43	7.31	1.533	—	0.73	19.96	0.78	0.998	-224.3
	Sampled at		1333						
1344	48	7.35	1.467	—	0.66	19.35	0.74	0.952	-229.3
1346	48	7.33	1.445	—	0.65	19.35	0.69	0.911	-229.3
1348	48	7.32	1.388	—	0.62	19.80	0.64	0.836	-223.1
	Sampled at		1349						
1402	58	7.37	1.443	—	0.50	18.98	0.73	0.940	-240.9
1404	58	7.36	1.463	—	0.50	19.00	0.74	0.954	-242.5
1406	58	7.36	1.491	—	0.49	19.01	0.76	0.970	-243.9
	Sampled at		1407						

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM Project Number: FR1681

DPT Location: DPT0067 (North Side of Building) Date: 2/11/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1440	10	7.40	0.640	—	1.29	20.20	0.30	0.391	-112.0
1442	10	7.24	0.574	—	0.69	20.56	0.27	0.356	-106.8
1444	10	7.15	0.533	—	0.65	20.71	0.25	0.340	-104.4
1508	18	7.16	0.648	—	0.83	21.44	0.38	0.515	-164.7
1510	18	7.05	0.822	—	0.61	23.90	0.41	0.541	-160.4
1512	18	7.02	0.838	—	0.57	24.33	0.41	0.547	-152.4
	Sampled at 1513								
1520	28	7.20	0.838	—	1.09	22.34	0.42	0.555	-172.3
1522	28	7.25	0.854	—	0.84	22.69	0.42	0.554	-173.7
1524	28	7.24	0.855	—	0.77	23.88	0.42	0.554	-176.9
~~1526~~	Sampled at		1525						
1532	38	7.39	0.908	—	0.46	20.75	0.45	0.594	-201.8
1534	38	7.38	0.940	—	0.40	22.20	0.46	0.612	-201.6
1536	38	7.37	0.950	—	0.37	23.04	0.47	0.618	-197.1
	Sampled at		1537						
1548	43	7.47	0.972	—	0.75	20.82	0.49	0.636	-215.6
1550	43	7.42	1.006	—	0.45	21.27	0.50	0.655	-208.6
1552	43	7.34	1.033	—	0.41	22.38	0.51	0.671	-196.6
	Sampled at		1553						
1605	48	7.45	0.958	—	0.70	20.82	0.48	0.634	-223.6
1607	48	7.43	0.996	—	0.50	21.74	0.50	0.669	-225.4
1609	48	7.40	1.033	—	0.47	22.68	0.52	0.680	-207.8
	Sampled at		1610						
1625	58	7.47	3.447	—	0.44	21.25	1.85	2.266	-233.6
1627	58	7.45	3.714	—	0.40	21.95	1.98	2.435	-238.7
1629	58	7.37	3.868	—	0.38	22.43	2.05	2.519	-237.4
	Sampled at		1630						

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0068 (T)

Date: 2/2/10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0755	28	7.32	0.710	—	1.24	23.49	0.35	0.461	-177.9
0757	28	7.28	0.710	—	0.43	24.11	0.35	0.463	-181.3
0759	28	7.33	0.713	—	0.35	24.36	0.35	0.463	-180.1
	Sampled at 0800								
0807	38	7.38	0.748	—	0.31	24.04	0.36	0.486	-173.3
0809	38	7.31	0.747	—	0.36	24.36	0.36	0.486	-168.7
0811	38	7.29	0.749	—	0.28	24.43	0.36	0.487	-165.8
	Sampled at 0812								
0823	43	7.22	1.120	—	0.32	24.25	0.55	0.724	-149.0
0825	43	7.15	1.107	—	0.31	24.47	0.55	0.719	-144.4
0827	43	7.13	1.107	—	0.31	24.44	0.55	0.719	-143.0
	Sampled at 0828								
0840	48	7.31	1.541	—	0.39	23.73	0.79	1.026	-159.7
0842	48	7.26	1.586	—	0.35	23.93	0.80	1.035	-154.5
0844	48	7.22	1.597	—	0.34	23.96	0.80	1.039	-151.6
	Sampled at 0845								
0855	58	7.32	3.659	—	0.29	23.72	1.94	2.396	-175.1
0857	58	7.37	3.714	—	0.27	23.89	1.97	2.439	-175.3
0859	58	7.36	3.765	—	0.26	23.93	1.99	2.460	-173.8
	Sampled at 0900								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM Project Number: FR1681

DPT Location: DPT00-69 - (next to road - East of road - west of building) Date: 2/2/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0922	10	7.30	0.826	—	1.04	23.37	0.40	0.536	-156.9
0924	10	7.30	0.819	—	0.82	23.46	0.40	0.530	-158.1
0926	10	7.30	0.811	—	0.62	23.46	0.40	0.526	-158.2
	Sampled at	0927							
0946	18	7.46	0.660	—	1.05	24.74	0.31	0.417	-173.4
0948	18	7.46	0.637	—	0.47	25.47	0.31	0.412	-177.2
0950	18	7.49	0.633	—	0.37	25.73	0.31	0.410	-177.4
	Sampled at	0951							
0958	28	7.38	1.035	—	0.41	24.17	0.52	0.687	-167.6
1000	28	7.25	1.072	—	0.31	24.95	0.54	0.710	-162.8
1002	28	7.21	1.101	—	0.30	25.29	0.55	0.720	-159.7
	Sampled at	1003							
1235	38	7.71	0.626	—	0.93	21.35	0.30	0.406	-239.9
1238	38	7.70	0.629	—	0.56	22.34	0.31	0.410	-240.6
1239	38	7.68	0.647	—	0.32	22.43	0.32	0.424	-237.0
	Sampled at	1240							
1252	43	7.62	0.890	—	0.55	20.20	0.45	0.592	-223.0
1254	43	7.52	0.963	—	0.36	21.49	0.48	0.628	-214.0
1256	43	7.51	0.990	—	0.31	22.56	0.49	0.645	-214.9
	Sampled at	1257							
1308	48	7.50	1.125	—	0.38	20.58	0.57	0.735	-227.5
1310	48	7.43	1.197	—	0.32	21.55	0.61	0.782	-218.7
1312	48	7.38	1.272	—	0.30	22.45	0.64	0.829	-211.1
	Sampled at	1313							
1325	58	7.44	3.598	—	0.38	21.17	1.92	2.354	-204.9
1327	58	7.41	3.693	—	0.36	21.89	1.96	2.412	-201.3
1329	58	7.38	3.778	—	0.33	22.31	2.01	2.462	-199.0
	Sampled at	1330							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0070 (AC)

Date: 2/2/10

~~DPT~~ Location JRB / Time	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1407	28	7.23	0.841	—	1.62	22.55	0.41	0.543	-123.5
1409	28	7.15	0.833	—	0.85	23.05	0.41	0.541	-125.0
1411	28	7.13	0.831	—	0.65	23.31	0.41	0.539	-125.1
	Sampled at		1412						
1418	38	7.39	0.712	—	0.46	22.67	0.34	0.450	-177.3
1420	38	7.41	0.684	—	0.37	23.31	0.33	0.439	-176.3
1422	38	7.38	0.674	—	0.34	23.73	0.33	0.437	-172.9
	Sampled at		1423						
1432	43	7.46	0.771	—	0.67	21.77	0.40	0.535	-178.1
1434	43	7.42	0.848	—	0.34	22.27	0.43	0.566	-174.3
1436	43	7.38	0.884	—	0.31	22.61	0.44	0.583	-170.0
	Sampled at		1437						
1446	48	7.51	0.947	—	0.46	22.07	0.48	0.642	-181.6
1448	48	7.41	1.016	—	0.28	22.72	0.51	0.679	-175.5
1450	48	7.33	1.071	—	0.27	23.10	0.54	0.708	-167.5
	Sampled at		1451						
1502	58	7.37	2.040	—	0.90	22.06	1.28	1.758	-167.8
1504	58	7.40	2.979	—	0.62	21.95	1.64	2.066	-172.3
1506	58	7.41	3.260	—	0.30	22.08	1.74	2.163	-174.1
	Sampled at		1507						

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Time DPT0071 (?)

Date: 2/2/10

~~DPT~~ TRD ~~Location~~	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1530	28	7.58	1.007	—	1.30	22.73	0.44	0.570	-157.3
1532	28	7.46	0.835	—	0.42	23.49	0.39	0.515	-148.7
1534	28	7.39	0.773	—	0.33	23.60	0.36	0.480	-144.9
	Sampled at 1535								
1552	38	7.36	0.646	—	0.84	22.00	0.31	0.421	-149.1
1554	38	7.36	0.656	—	0.47	22.02	0.33	0.438	-150.3
1556	38	7.36	0.686	—	0.38	22.13	0.34	0.455	-152.0
	Sampled at 1557								
1606	43	7.39	0.659	—	0.45	22.07	0.32	0.430	-157.5
1608	43	7.39	0.691	—	0.34	22.02	0.35	0.466	-158.0
1610	43	7.38	0.722	—	0.32	22.05	0.34	0.446	-158.7
	Sampled at 1611								
1619	48	7.39	0.529	—	0.58	21.95	0.26	0.343	-159.9
1621	48	7.39	0.520	—	0.51	21.92	0.25	0.330	-160.5
1623	48	7.39	0.501	—	0.48	21.91	0.24	0.320	-161.0
	Sampled at 1624								
1635	58	7.39	0.984	—	0.90	21.71	0.55	0.724	-163.5
1637	58	7.38	1.123	—	0.36	21.73	0.56	0.730	-164.2
1639	58	7.38	1.117	—	0.31	21.74	0.55	0.720	-164.9
	Sampled at 1640								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0072 (AA)

Date: 2/3/10

Time

~~DPT Location~~ MW3	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0742	28	6.78	1.247	—	1.16	15.06	0.63	0.812	-115.8
0744	28	6.81	1.248	—	0.59	15.42	0.62	0.808	-122.6
0746	28	6.85	1.232	—	0.41	16.68	0.61	0.794	-128.9
	Sampled at	0747							
0759	38	7.01	1.382	—	0.67	19.37	0.86	0.128	-148.6
0801	38	6.88	1.782	—	0.44	21.09	0.92	1.186	-143.6
0803	38	6.87	1.849	—	0.44	21.75	0.94	1.207	-139.0
	Sampled at	0804							
0814	43	7.09	2.074	—	0.82	18.25	1.09	1.385	-124.8
0816	43	7.08	2.165	—	0.38	19.50	1.13	1.442	-121.7
0818	43	7.05	2.244	—	0.35	20.11	1.17	1.478	-118.9
	Sampled at	0819							
0828	48	7.21	2.380	—	0.72	17.96	1.24	1.567	-131.8
0830	48	7.17	2.445	—	0.49	19.06	1.27	1.605	-128.4
0832	48	7.13	2.489	—	0.44	19.84	1.30	1.635	-125.5
	Sampled at	0833							
0845	58	7.36	4.182	—	0.61	17.95	2.28	2.795	-152.3
0847	58	7.37	4.425	—	0.37	19.26	2.44	2.988	-156.9
0849	58	7.35	4.686	—	0.33	20.23	2.56	3.118	-159.7
	Sampled at	0850							
0901	63	7.55	5.155	—	0.75	16.80	2.78	3.346	-198.7
0903	63	7.53	5.175	—	0.32	17.97	2.82	3.396	-195.0
0905	63	7.52	5.307	—	0.26	18.98	2.93	3.524	-191.8
	Sampled at	0906							
1428	10	7.24	1.010	—	1.65	18.58	0.49	0.641	-130.4
1430	10	7.23	0.979	—	0.74	18.79	0.48	0.630	-131.2
1432	10	7.22	0.964	—	0.59	18.93	0.48	0.624	-132.2
	Sampled at	1433							
1440	18	7.25	0.934	—	1.42	19.40	0.49	0.647	-140.2
1442	18	7.24	1.057	—	1.21	19.44	0.55	0.733	-140.3
1444	18	7.23	1.156	—	1.01	19.57	0.58	0.764	-140.5
	Sampled at	1445							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0073 (AF)

Date: 2.3.10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0938	28	6.84	1.320	—	1.17	20.08	0.66	0.858	-91.5
0940	28	6.87	1.322	—	0.87	20.63	0.66	0.858	-95.5
0942	28	6.89	1.319	—	0.71	21.21	0.66	0.859	-95.9
	Sampled at 0943								
0954	38	7.09	2.138	—	1.61	21.68	1.11	1.413	-126.0
0956	38	7.06	2.194	—	1.05	22.35	1.13	1.438	-123.2
0958	38	7.03	2.224	—	0.88	22.70	1.14	1.452	-119.9
	Sampled at 0959								
1005	43	7.26	2.132	—	0.65	18.23	1.11	1.408	-141.1
1007	43	7.19	2.209	—	0.45	19.70	1.15	1.462	-139.0
1009	43	7.13	2.275	—	0.42	20.50	1.19	1.501	-134.8
	Sampled at 1010								
1020	48	7.25	2.171	—	0.49	18.26	1.15	1.456	-164.6
1022	48	7.27	2.307	—	0.44	20.00	1.23	1.556	-156.2
1024	48	7.20	2.429	—	0.42	20.89	1.27	1.600	-151.6
	Sampled at 1025								
1036	58	7.30	4.096	—	1.19	17.88	2.30	2.846	-154.5
1038	58	7.33	4.592	—	0.40	18.77	2.56	3.128	-157.0
1040	58	7.33	4.919	—	0.30	19.56	2.68	3.246	-156.8
	Sampled at 1041								
1406	10	7.07	0.853	—	1.59	19.16	0.41	0.543	-60.0
1408	10	7.01	0.823	—	0.86	19.43	0.40	0.528	-58.0
1410	10	6.98	0.798	—	0.60	19.73	0.39	0.513	-56.2
	Sampled at 1411								
1412	18	7.00	1.036	—	0.89	20.94	0.84	0.715	-83.3
1414	18	7.08	1.122	—	0.51	21.28	0.57	0.744	-93.2
1416	18	7.10	1.152	—	0.40	21.29	0.58	0.752	-96.9
	Sampled at 1417								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0074 (Y)

Date: 2/3/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1110	28	6.89	1.316	—	1.09	22.09	0.66	0.852	-82.1
1112	28	6.81	1.310	—	0.59	23.15	0.65	0.851	-80.6
1114	28	6.76	1.309	—	0.64	23.89	0.65	0.847	-79.3
	Sampled at 1115								
1131	38	6.87	1.555	—	0.70	23.46	0.83	1.086	-113.3
1133	38	6.90	1.700	—	0.59	24.50	0.87	1.120	-114.0
1135	38	6.90	1.733	—	0.57	24.86	0.88	1.131	-114.2
	Sampled at 1136								
1221	43	7.08	2.259	—	0.61	21.66	1.20	1.523	-123.8
1223	43	7.07	2.476	—	0.55	22.83	1.28	1.626	-122.3
1225	43	7.07	2.541	—	0.51	23.61	1.35	1.707	-116.6
	Sampled at 1226								
1237	48	7.22	2.753	—	0.27	23.78	1.45	1.822	-135.4
1239	48	7.20	2.847	—	0.27	24.23	1.49	1.871	-132.5
1241	48	7.18	2.899	—	0.27	24.48	1.51	1.900	-129.4
	Sampled at 1242								
1254	58	7.39	3.772	—	1.08	21.76	2.04	2.526	-158.4
1256	58	7.40	4.060	—	0.47	22.66	2.22	2.748	-163.3
1258	58	7.40	4.395	—	0.38	23.39	2.39	2.931	-162.7
	Sampled at 1259						2.53		
1310	63	7.46	4.540	—	1.53	19.95	~~3.005~~	3.025	-178.1
1312	63	7.50	4.809	—	0.43	20.99	2.62	3.171	-180.9
1314	63	7.50	4.930	—	0.31	21.78	2.67	3.238	-182.3
	Sampled at 1315						1.18		
1336	10	7.51	3.307	—	1.76	19.56	~~1.996~~	2.960	-133.4
1338	10	7.46	2.613	—	1.13	19.87	~~1.564~~ 1.19	1.564	-124.6
1340	10	7.44	1.961	—	0.47	~~0.082~~	0.99	1.232	-120.7
	Sampled at 1341								
1345	18	7.23	1.413	—	1.65	21.02	0.70	0.914	-110.8
1347	18	7.21	1.374	—	0.97	21.18	0.68	0.881	-105.3
1349	18	7.20	1.343	—	0.76	21.43	0.67	0.866	-100.5
	Sampled at 1350								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 / CRHE

Date: 2-23-2010

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1535	0081	26-30	—	—	—	—	NA	—	—	—	gray
1550	0081	36-40	—	—	—	NA	—	—	—	—	gray
											cleared some
1605	0081	41-45	—	—	—	NA	—	—	—	—	Gray
											cleared quickly
1620	0081	46-50	—	—	—	NA	—	—	—	—	gray
											cleared quickly
1640	0081	56-60	—	—	—	NA	—	—	—	—	Gray

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0075

CRHE -

Project Number: ~~WSHRE~~ Contractor RI / FR1681

Date: ~~FR1681~~ 1/22/10

Screened Interval (ft)	DPT Location (Time)	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 ~g/L	Temp deg. C	Salinity ' %	TDS g/L	ORP mV	Color
16-20 DPT75	0838	18	6.94	0.910	-	13.8	24.85	0.44	0.581	-61.5	light grey
	0840	↓	7.05	0.855	-	8.84	25.25	0.42	0.552	-86.4	"
	0842	↓	7.06	0.840	-	7.15	24.83	0.41	0.545	-91.7	"
		Sampled @	0843								
26-30 DPT75	0850	28	6.98	1.014	-	13.67	23.98	0.50	0.655	-108.6	light grey
	0852	↓	6.86	0.993	-	6.54	24.74	0.49	0.644	-100.1	"
	0854	↓	6.80	0.976	-	5.13	24.61	0.48	0.634	-91.8	"
		Sampled @	0855								
36-40 DPT75	0908	38	6.77	1.191	-	16.43	26.76	0.59	0.772	-107.9	grey
	0910	↓	6.87	1.184	-	9.25	23.92	0.59	0.769	-113.6	light grey
	0912	↓	6.85	1.180	-	5.69	24.21	0.59	0.767	-117.4	"
		Sampled @	0913								
41-45 DPT75	0925	43	7.01	1.461	-	28.78	22.14	0.74	0.965	-133.4	light grey
	0927	↓	7.06	1.498	-	9.32	24.13	0.75	0.975	-152.6	"
	0929	↓	7.06	1.498	-	4.84	24.82	0.75	0.973	-157.8	"
		Sampled @	0930								
46-50 DPT75	0945	48	7.18	1.362	-	22.60	21.80	0.69	0.893	-171.0	grey
	0947	↓	7.19	1.428	-	9.52	24.10	0.72	0.938	-188.8	"
	0949	↓	7.19	1.495	-	4.41	25.11	0.75	0.974	-181.3	"
		Sampled @	0950								
56-60 DPT75	1005	58	7.11	3.181	-	25.07	22.63	1.69	2.111	-184.9	grey
	1007	↓	7.22	3.477	- 6.09	~~63.81~~	23.88	1.85	2.292	-198.8	light grey
	1009	↓	7.27	3.587	-	3.69	24.08	1.89	2.338	-203.9	"
		Sampled @	1010								

Note: Insert units if not provided on sheet.

(1) Turbidity above 999.9 NTU

(4) DO + Specific conductance failed CCV

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DPT GEOCHEMICAL DATA FORM

DPT Location: PPT0076

Project Number: ~~CH2E~~ CRHE Contractors RI / FR 1681

Date: ~~FR 1681~~ 2/22/10 NS

Screened Interval (ft)	DPT Location / Time	Sample Depth (ft)	pH std units	(2) Conductivity mS/cm	(1) Turbidity NTUs	(2) Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
16-20	1058	18	7.64	1.038	–	13.07	23.59	0.51	0.652	-104.8	light grey
DPT76	1100	↓	7.00	0.982	–	3.99	25.24	0.48	0.635	-108.1	"
	1102	↓	6.93	0.967	–	5.01	24.91	0.48	0.638	-106.2	"
		Sampled @	1103								
26-30	1111	28	7.00	0.993	–	14.01	24.15	0.49	0.643	-135.4	grey
DPT 76	1113	↓	6.95	0.989	–	6.23	24.89	0.49	0.643	-136.2	light grey
	1115	↓	6.95	0.966	–	4.35	24.87	0.47	0.627	-123.0	"
		Sampled @	1116								
36-40	1202	38	7.20	1.137	–	13.18	26.23	056	0.735	-127.8	grey
DPT 76	1204	↓	6.95	1.104	–	7.91	26.46	0.54	0.716	-135.6	light grey
	1206	↓	6.90	1.087	–	4.60	25.77	0.53	0.704	-124.0	"
		Sampled @	1207								
41-45	1219	43	7.07	1.150	–	18.97	25.97	0.58	0.763	-145.6	grey
DPT 76	1221	↓	7.04	1.195	–	5.58	26.76	0.59	0.777	-149.0	light grey
	1223	↓	6.99	1.194	–	3.97	26.54	0.59	0.775	-141.3	"
		Sampled @	1224								
46-50	1237	48	7.23	1.058	–	16.78	25.07	0.52	0.682	-174.5	grey
DPT 76	1239	↓	7.23	1.102	–	4.72	26.20	0.55	0.728	-188.5	"
	1241	↓	7.21	1.203	–	3.09	26.15	0.60	0.785	-187.6	light grey
		Sampled @	1242								
56-60	1255	58	7.20	3.025	–	10.19	26.08	1.53	1.920	-205.5	grey
DPT 76	1257	↓	7.36	3.029	–	4.13	25.85	1.60	2.006	-210.3	"
	1259	↓	7.32	3.229	–	2.93	25.62	1.69	2.106	-200.2	light grey
		Sampled @	1300								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

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(2) DO & Specific Conductance failed CCV

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0077

Project Number: CMRE Contractors RI / FR1681
Date: ~~FR1681~~ 2/22/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	(1) Turbidity NTUs	(2) Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
16-20	1337	18	7.28	0.870	-	9.40	24.35	0.42	0.560	-76.9	light grey
DPT 77	1339	↓	6.97	0.841	-	5.96	23.84	0.41	0.545	-80.7	"
	1341	↓	6.89	0.821	-	4.32	23.48	0.40	0.533	-82.0	"
		Sampled @	1342								
26-30	1350	28	7.11	0.841	-	17.89	24.21	0.65	0.846	-106.1	grey
DPT 77	1352	↓	6.90	1.330	-	6.25	24.22	0.66	0.866	-111.6	light grey
	1354	↓	6.85	1.328	-	3.64	24.01	0.66	0.861	-105.4	"
		Sampled @	1355								
36-40	1405	38	7.07	0.694	-	19.80	24.74	0.37	0.500	-160.8	grey
DPT 77	1407	↓	7.09	0.757	-	5.89	25.10	0.37	0.488	-164.5	"
	1409	↓	7.09	0.735	-	2.81	24.69	0.36	0.477	-154.4	light grey
		Sampled @	1410								
41-45	1422	43	7.09	0.559	-	16.50	24.31	0.33	0.447	-144.4	grey
DPT 77	1424	↓	7.13	0.701	-	3.43	24.46	0.34	0.457	-145.4	light grey
	1426	↓	7.07	0.700	-	2.52	24.22	0.34	0.454	-133.7	"
		Sampled @	1427								
46-50	1439	48	7.17	0.587	-	13.91	25.31	0.35	0.486	-130.4	grey
DPT 77	1441	↓	7.13	0.787	-	3.71	25.32	0.38	0.516	-149.2	"
	1443	↓	7.15	0.797	-	2.37	25.03	0.39	0.517	-151.2	light grey
		Sampled @	1444								
56-60	1457	58	6.96	2.491	-	12.17	25.30	~~1.35~~ ~~1.698~~	1.709	-157.4	grey
DPT 77	1459	↓	7.10	2.680	-	2.88	24.75	1.39	1.757	-188.4	light grey
	1501	↓	7.32	2.780	-	2.02	24.81	1.44	1.808	-205.7	light grey
		Sampled @	1502								

Note: Insert units if not provided on sheet.

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(1) Turbidity above 999.9 NTU

(2) DO & Specific Conductance failed CCV

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT 0078

Project Number: CHRE Contractors RI/FR1681
Date: ~~FR1681~~ 2/22/10 - 2/23/10

Screened Interval (ft)	DPT Location / Time	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
16-20 DPT 78	1633	18	7.34	0.843	—	9.43	23.80	0.42	0.554	-102.6	light grey
	1635	↓	7.04	0.831	—	3.66	23.35	0.41	0.538	-115.9	"
	1637	↓	6.97	0.807	—	2.02	22.95	0.40	0.525	-113.0	"
		Sampled @	1638								
26-30 DPT 78	1645	28	6.96	0.846	—	11.44	23.63	0.40	0.535	-136.2	grey
	1647	↓	7.02	0.842	—	3.87	23.51	0.41	0.551	-139.0	light grey
	1649	↓	6.95	0.842	—	2.50	23.05	0.41	0.546	-121.2	"
		Sampled @	1650								
36-40 DPT 78	0823	38	6.86	1.578	—	10.15	20.29	0.79	1.024	-111.3	grey
	0825	↓	6.94	1.694	—	4.38	21.77	0.86	1.099	-124.6	light grey
	0827	↓	6.95	1.694	—	2.69	21.76	0.86	1.100	-118.5	"
		Sampled @	0828								
41-45 DPT 78	0849	43	6.98	1.889	—	6.95	22.54	1.00	1.289	-149.2	light grey
	0851	↓	7.02	2.105	—	2.78	23.17	1.08	1.378	-157.6	"
	0853	↓	7.07	2.127	—	1.93	23.12	1.09	1.382	-159.4	"
		Sampled @	0854								
46-50 DPT 78	0912	48	7.12	2.276	—	9.04	21.98	1.16	1.471	-168.7	light grey
	0914	↓	7.16	2.334	—	2.65	22.71	1.21	1.528	-167.7	"
	0916	↓	7.15	2.391	—	1.43	22.97	1.23	1.552	-163.4	"
		Sampled @	0917								
56-60 DPT 78	0938	58	7.18	3.342	—	4.79	21.89	1.79	2.231	-148.0	light grey
	0940	↓	7.23	3.580	—	1.88	22.33	1.89	2.338	-158.5	"
	0942	↓	7.25	3.655	—	1.30	22.45	1.93	2.380	-161.2	"
		Sampled @	0943								

Note: Insert units if not provided on sheet

(1) Turbidity above 999.9 NTU

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(2) DO & Specific Conductance failed CCV for sample depths 18 & 28

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT 0079

Project Number: ~~EHRE~~ CRUE Contractors RI / FR 1681

Date: ~~FR1681~~ 2/28/10 MS

Screened Interval (ft)	DPT Location (Time)	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
16-20	1038	18	7.31	0.811	–	7.85	23.49	0.39	0.519	-135.6	light grey
DPT 79	1037	↓	7.22	0.798	–	5.54	23.54	0.39	0.517	-146.0	"
	1039	↓	7.18	0.786	–	1.45	23.35	0.38	0.509	-144.9	"
		Sampled @	1040								
	~~1052~~ MS										
26-30	1052	28	7.19	0.958	–	1.00	23.06	0.47	0.614	-139.3	grey
DPT 79	1054	↓	7.12	0.940	–	0.89	23.01	0.46	0.610	-135.1	light grey
	1056	↓	7.03	0.927	–	0.93	22.92	0.46	0.602	-122.8	"
		Sampled @	1057								
36-40	1116	38	7.16	1.258	–	14.55	23.92	0.63	0.828	-152.7	light grey
DPT 79	1118	↓	7.20	1.295	–	2.37	24.01	0.65	0.843	-155.2	"
	1120	↓	7.19	1.290	–	1.25	23.69	0.64	0.838	-147.6	"
		Sampled @	1121								
46-~~45~~-50	1208	48	7.49	1.905	–	7.35	23.93	1.01	1.302	-154.9	grey
DPT 79	1210	↓	7.26	2.136	–	2.20	24.18	1.10	1.401	-167.2	light grey
	1212	↓	7.23	2.208	–	1.41	24.24	1.13	1.436	-168.3	"
		Sampled @	1213								
56-60	1256	58	7.65	3.179	–	8.78	24.93	1.70	2.137	-162.7	grey
DPT 79	1259	↓	7.48	3.392	–	2.52	24.95	1.79	2.220	-175.9	light grey
	1300	↓	7.39	3.472	–	1.33	24.15	1.82	2.258	-171.2	"
		Sampled @	1301								
41-45	1318	43	7.49	1.889	–	7.79	25.27	0.94	1.209	-140.9	light grey
DPT 79	1320	↓	7.22	1.871	–	1.49	24.77	0.95	1.216	-156.4	"
	1322	↓	7.20	1.866	–	1.15	24.68	0.95	1.213	-160.7	"
		Sampled @	1323								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0080

Project Number: ~~CHRE~~ CRHE Contractors RI / FR1681

Date: ~~FR1681~~ 2/23/10 NS

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	(1) Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
16-20 DPT80	1350	18	7.15	0.833	–	7.18	23.81	0.41	0.539	-116.4	grey
	1352	↓	7.06	0.818	–	2.36	23.45	0.40	0.530	-111.2	light grey
	1354	↓	6.99	0.804	–	0.85	23.11	0.39	0.521	-107.1	"
		Sampled @	1355								
26-30 DPT80	1411	28	7.16	0.853	–	5.54	24.46	0.42	0.552	-126.8	light grey
	1413	↓	7.08	0.846	–	2.19	24.28	0.41	0.549	-126.3	"
	1415	↓	7.03	0.835	–	1.35	23.90	0.41	0.541	-121.9	"
		Sampled @	1416								
36-40 DPT80	1454	38	7.55	0.822	–	4.61	25.61	0.44	0.587	-211.9	dark grey
	1456	↓	7.44	01.135	–	1.36	25.32	0.57	0.751	-214.7	grey
	1458	↓	7.46	0.872	–	0.98	25.34	0.42	0.561	-220.1	"
		Sampled @	1459								
41-45 DPT80	1518	43	7.22	1.680	–	14.80	24.08	0.86	1.112	-164.8	light grey
	1520	↓	7.24	1.737	–	2.76	23.94	0.88	1.132	-170.5	"
	1522	↓	7.25	1.753	–	1.32	23.83	0.89	1.140	-168.0	"
		Sampled @	1523								
46-50 DPT80	1544	48	7.25	1.931	–	1.49	25.34	.98	1.256	-173.6	grey
		↓	Low water flow								
		Sampled @	1545								
56-60 DPT80	1604	58	7.69	2.847	–	8.20	24.86	1.53	1.925	-135.5	light grey
	1606	↓	7.34	3.154	–	2.23	24.00	1.67	2.078	-181.5	"
	1609	↓	7.34	3.265	–	0.84	23.65	1.71	2.128	-186.3	"
		Sampled @	1609								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 / CRHE

Date: 2-23-2010

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1535	0081	26-30					NA				gray
1550	0081	36-40				NA					gray
											cleared some
1605	0081	41-45				NA					gray
											cleared quickly
1620	0081	46-50				NA					gray
											cleared quickly
1640	0081	56-60				NA					gray

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0082

Project Number: CRME Contractor RI/FR1681

Date: ~~1/FR1681~~ 2/24/10

Screened Interval (ft)	DPT Location	Time / Sample Depth (ft)	pH std units	Conductivity mS/cm	(1) Turbidity NTUs	(2) Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12	0803	10	7.06	0.958	-	7.61	19.04	0.42	0.606	-16.5	Black
DPT82	0805	↓	6.75	0.877	-	2.76	19.82	0.43	0.43	-49.3	Dark brown
	0807	↓	6.68	0.866	-	2.77	19.91	0.43	0.562	-60.5	Brown
		Sampled @	0808								
16-20	0814	18	6.80	0.804	-	7.27	20.78	0.40	0.524	-103.5	grey
DPT82	0816	↓	6.83	0.802	-	3.13	21.62	0.39	0.521	-110	light grey
	0818	↓	6.88	0.794	-	1.61	22.18	0.39	0.514	-115.9	"
		Sampled @	0819								
26-30	0826	28	6.98	0.856	-	18.03	20.17	0.42	0.552	-102.4	grey
DPT 82	0828	↓	6.86	0.849	-	2.43	21.49	0.41	0.553	-110.6	"
	0830	↓	6.86	0.848	-	1.38	22.01	0.42	0.550	-110.8	light grey
		Sampled @	0831								
31-35	0841	33	7.04	0.657	-	3.08	19.46	0.34	0.453	-148.9	grey
DPT 82	0843	↓	7.08	0.692	-	0.59	21.65	0.34	0.453	-168.2	"
	0845	↓	7.14	0.706	-	0.52	22.01	0.34	0.458	-162.4	light grey
		Sampled @	0846								
36-40	0903	38	7.57	0.851	-	11.74	20.44	0.42	0.556	-101.2	grey
DPT 82	0905	↓	7.12	0.876	-	2.03	22.03	0.43	0.571	-114.6	light grey
	0907	↓	7.11	0.874	-	1.17	22.74	0.43	0.568	-119.3	"
		Sampled @	0908								
41-45	0919	43	7.01	0.577	-	10.46	20.52	0.80	1.039	-101.6	grey
DPT 82	0921	↓	7.03	1.687	-	1.56	22.03	0.86	1.107	-110.8	"
	0923	↓	7.04	1.755	-	0.94	22.33	0.89	1.144	-110.6	light grey
		Sampled @	0924								
46-50	0948	48	7.13	1.744	-	9.35	20.65	0.89	1.153	-101.9	light grey
DPT 82	0950	↓	7.05	1.852	-	2.16	22.56	0.95	1.222	-105.2	"
	0952	↓	7.07	1.913	-	0.95	22.54	0.97	1.244	-105.7	"
		Sampled @	0953								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

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(2) DO failed CCV

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0083

Project Number: CRME ~~CTRE~~ Contractors RI / FR1681

Date: ~~FR1681~~ 2/24/10

Screened Interval (ft)	DPT Location	Time / Sample Depth (ft)	pH std units	Conductivity mS/cm	(1) Turbidity NTUs	(2) Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12	1146	10	7.89	0.491	-	11.39	22.25	0.22	0.306	-78.3	Dark Brown
DPT83	1148	↓	7.40	0.470	-	1.58	22.84	0.23	0.305	-93.4	"
	1150	↓	7.22	0.469	-	0.92	22.89	0.23	0.305	-95.4	Brown
		Sampled @	1151								
16-20	1156	18	7.10	0.499	-	10.18	22.74	0.25	0.347	-106.6	Grey
DPT83	1158	↓	7.11	0.543	-	1.02	24.23	0.26	0.349	-121.1	light grey
	1200	↓	7.12	0.521	-	0.69	24.40	0.25	0.339	-117.3	"
		Sampled @	1201								
26-30	1208	28	7.18	0.658	-	3.45	23.68	0.32	0.428	-114.2	Grey
DPT83	1210	↓	7.09	0.658	-	0.48	24.61	0.32	0.428	-119.2	light grey
	1212	↓	7.06	0.653	-	0.39	24.93	0.32	0.424	-116.1	"
		Sampled @	1213								
31-35	1221	33	7.36	0.343	-	9.43	23.73	0.25	0.370	-117.8	Grey
DPT83	1223	↓	7.20	0.646	-	0.52	24.70	0.31	0.419	-145.1	light grey
	1225	↓	7.24	0.638	-	0.31	25.01	0.31	0.414	-149.9	"
		Sampled @	1226								
36-40	1237	38	7.31	0.591	-	5.23	24.87	0.32	0.436	-149.7	Grey
DPT83	1239	↓	7.19	0.702	-	0.56	25.64	0.34	0.455	-150.4	light grey
	1241	↓	7.17	0.687	-	0.47	25.39	0.33	0.445	-142.0	"
		Sampled @	1242								
41-45	1304	43	7.25	0.904	-	9.30	25.64	0.45	0.602	-118.2	light grey
DPT83	1306	↓	7.00	01.011	-	0.57	26.27	0.50	0.656	-109.7	"
	1308	↓	6.93	0.998	-	0.70	25.97	0.49	0.645	-96.6	"
		Sampled @	1309								
46-50	1321	48	6.92	1.116	-	9.96	25.73	0.57	0.759	-130.8	Grey
DPT83	1323	↓	6.99	1.398	-	0.69	26.31	0.72	0.942	-123.3	light grey
	1325	↓	6.96	1.450	-	0.69	25.79	0.72	0.941	-110.1	"
		Sampled @	1326								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

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(2) DO failed CCV

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0084

Project Number: CRHE ~~CHRE~~ Contractor RI / FR1681

Date: ~~FR1681~~ 2/24/10 NS

Screened Interval (ft)	DPT Location (Time)	Sample Depth (ft)	pH std units	Conductivity mS/cm	① Turbidity NTUs	② Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT84	1411	10	7.80	0.726	-	7.03	23.35	0.35	0.472	-87.0	grey
	1413	↓	7.27	0.696	-	0.63	21.87	0.34	0.449	-115.2	light grey
	1415	↓	7.07	0.659	-	0.70	21.30	0.32	0.427	-109.2	"
		Sampled@	1416								
16-20 DPT84	1422	18	6.78	0.825	-	7.76	23.51	0.41	0.549	-130.2	light grey
	1424	↓	6.70	0.860	-	1.89	24.05	0.42	0.559	-118.2	"
	1426	↓	6.75	0.854	-	0.66	23.67	0.42	0.555	-117.3	"
		Sampled@	1427								
26-30 DPT84	1435	28	7.04	0.921	-	9.04	23.60	0.46	0.616	-153.4	grey
	1437	↓	7.18	0.966	-	0.94	24.30	0.48	0.630	-171.2	"
	1439	↓	7.20	0.961	-	0.53	23.98	0.47	0.622	-162.0	light grey
		Sampled@	1440								
31-35 DPT84	1449	33	7.11	1.104	-	8.88	23.39	0.59	0.777	-139.0	grey
	1451	↓	7.13	1.067	-	0.32	24.32	0.63	0.826	-164.4	light grey
	1453	↓	7.15	1.077	-	0.24	24.14	0.64	0.830	-160.1	"
		Sampled@	1454								
36-40 DPT84	1517	38	7.03	1.307	-	11.94	21.09	0.65	0.854	-133.6	grey
	1519	↓	6.96	1.366	-	1.37	22.71	0.69	0.895	-140.7	"
	1521	↓	7.00	1.402	-	0.64	23.15	0.70	0.910	-134.4	light grey
		Sampled@	1522								
41-45 DPT84	1533	43	7.00	1.464	-	9.52	21.78	0.75	0.973	-137.6	grey
	1535	↓	7.02	1.561	-	1.09	23.11	0.79	01.024	-139.6	light grey
	1537	↓	7.03	1.611	-	0.64	23.21	0.81	01.049	-130.9	"
		Sampled@	1538								
46-50 DPT84	1552	48	7.19	1.554	-	13.22	21.10	0.84	1.077	-124.4	grey
	1554	↓	7.09	1.691	-	1.27	22.19	0.86	1.106	-134.0	"
	1556	↓	7.06	1.733	-	0.61	22.48	0.88	1.734	-114.7	light grey
		Sampled@	1557								

Note: Insert units if not provided on sheet. ① Turbidity above 999.9 NTU

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② DO Failed CCV

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0085

Project Number: FR1681 - Contractor Rd

Date: 3/25/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT85	0816	10	6.52	0.721	-	8.75	14.57	0.34	0.447	32.7	Dark brown
	0818	↓	6.25	0.688	-	1.67	16.62	0.34	0.447	-1.8	Brown
	0820	↓	6.70	0.683	-	1.35	16.98	0.33	0.443	-20.2	"
		Sampled @	0821								
16-20 DPT85	0827	18	6.67	0.752	-	12.66	12.77	0.46	0.604	-87.9	grey
	0829	↓	6.71	0.986	-	0.38	18.11	0.49	0.642	-107.4	light grey
	0831	↓	6.80	0.982	-	0.36	18.97	0.49	0.736	-108.2	"
		Sampled @	0832								
26-30 DPT85	0840	28	6.96	0.936	-	12.06	13.86	0.51	0.680	-122.3	grey/brown
	0842	↓	6.90	1.126	-	1.05	18.40	0.57	0.747	-131.7	light grey
	0844	↓	6.95	1.184	-	0.61	19.31	0.59	0.771	-132.4	"
		Sampled @	0845								
31-35 DPT85	0905	33	6.92	1.390	-	9.82	15.53	0.70	0.901	-123.5	Brown
	0907	↓	6.89	1.468	-	1.29	19.10	0.75	0.963	-138.2	light grey
	0909	↓	7.02	1.507	-	0.73	19.92	0.76	0.981	-141.6	"
		Sampled @	0910								
36-40 DPT85	0921	38	7.04	1.518	-	11.08	14.08	0.79	1.026	-126.6	grey
	0923	↓	7.02	1.790	-	1.13	18.64	0.93	1.186	-139.7	light grey
	0925	↓	7.10	1.899	-	0.56	19.31	0.97	1.237	-142.7	"
		Sampled @	0926								
41-45 DPT85	0940	43	7.16	1.701	-	7.45	17.04	0.89	1.140	-158.1	light grey
	0942	↓	7.14	1.963	-	1.06	19.22	0.96	1.227	-158.7	"
	0944	↓	7.18	1.949	-	0.61	19.63	01.00	1.271	-150.3	"
		Sampled @	0945								
	0959	48	7.11	1.757	-	2.70	19.56	0.90	1.157	-147.7	grey
	1001	↓	7.17	1.784	-	0.64	19.87	0.93	1.193	-147.5	light grey
	1003	↓	7.17	1.845	-	0.47	19.80	0.94	1.200	-140.2	"
		Sampled @	1004								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

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(2) Specific Conductance failed CCV

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0086

Project Number: FR1681 - Contractors Rd
Date: 3/25/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT86	1034	10	7.34	0.783	-	7.51	17.85	0.38	0.505	-63.9	Very Dark Brown
	1036	↓	6.91	0.752	-	1.25	18.88	0.37	0.484	-68.3	Dark Brown
	1038	↓	6.80	0.727	-	0.82	18.79	0.36	0.472	-68.8	Brown
		Sampled @	1039								
16-20 DPT86	1046	18	6.91	0.733	-	5.48	18.46	0.46	0.609	-87.6	grey
	1048	↓	6.71	0.989	-	0.38	21.07	0.49	0.645	-84.5	light grey
	1050	↓	6.76	0.978	-	0.41	20.85	0.48	0.634	-81.2	"
		Sampled @	1051								
26-30 DPT86	1151	28	7.44	0.633	-	13.16	16.97	0.41	0.549	-58.8	grey
	1153	↓	6.90	0.951	-	1.58	20.46	0.47	0.624	-66.4	light grey
	1155	↓	6.86	0.978	-	0.85	21.21	0.48	0.636	-68.4	"
		Sampled @	1156								
31-35 DPT86		33			-						
	1206	↓	7.06	1.034	-	8.30	18.52	0.62	0.818	-111.9	grey
	1208	↓	6.98	1.368	-	0.78	21.14	0.69	0.880	-109.3	"
	1210	↓	6.99	1.388	-	0.51	21.61	0.70	0.903	-99.5	light grey
		Sampled @	1211								
36-40 DPT86	1223	38	7.13	1.264	-	10.03	18.62	0.65	0.860	-111.4	grey
	1225	↓	6.99	1.582	-	0.79	21.75	0.78	01.018	-118.9	"
	1227	↓	7.02	1.616	-	0.44	21.13	0.82	1.052	-116.5	light grey
		Sampled @	1228								
41-45 DPT86	1240	43	7.15	1.309	-	11.08	18.29	0.69	0.905	-110.1	grey
	1242	↓	7.05	1.644	-	0.63	21.70	0.84	01.082	-120.8	light grey
	1244	↓	7.10	1.697	-	0.39	22.00	0.86	1.105	-117.4	"
		Sampled @	1245								
46-50 DPT86	1258	48	7.13	1.517	-	8.29	19.32	0.80	1.038	-121.6	grey
	1300	↓	7.12	1.762	-	0.57	21.00	0.90	1.158	-124.0	light grey
	1302	↓	7.16	1.842	-	0.35	21.45	0.94	1.202	-117.9	"
		Sampled @	1303								

Note: Insert units if not provided on sheet.

(1) Turbidity above 999.9 NTU

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(4) Conductance failed CCV

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0086

Project Number: FR1681-Contractors RJ

Date: 02-26-10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity (2) mS/cm	(1) Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
12-16 DPT86	1531	14	7.31	0.942	–	4.14	21.94	0.45	0.597	-50.3	gray
	1533	↓	6.73	0.882	–	1.27	22.09	0.43	0.573	-44.1	"
	1535	↓	6.52	0.878	–	1.09	21.93	0.43	0.570	-36.5	"
	Sampled	@ 1536									
21-25 DPT 86	1543	23	6.69	0.920	–	1.98	22.93	0.45	0.601	-57.0	cloudy brown
	1545	↓	6.57	0.926	–	0.64	22.79	0.46	0.602	-54.7	"
	1547	↓	6.54	0.924	–	0.52	22.59	0.45	0.600	-53.1	"
	Sampled	@ 1548	0.		–						

Note: Insert units if not provided on sheet.

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(1) Turbidity above 999.9 NTU

(2) Specific Conductance failed CCV

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT 00 87

Project Number: ~~CHRE~~ CRHE Contractors RI - FR1681

Date: ~~FR1684~~ 2/28/10

Screened Interval (ft)	DPT Location	Time / Sample Depth (ft)	pH std units	Conductivity ② mS/cm	Turbidity ① NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT 87	1401	10	7.13	0.776	-	2.72	20.30	0.38	0.511	-62.2	Very Dark Brown
	1403	↓	6.90	0.798	-	0.93	20.70	0.39	0.521	-54.2	Dark Brown
	1405	↓	6.75	0.804	-	0.81	20.61	0.39	0.522	-47.4	Brown
		Sampled @	1406	~~0.726~~							
16-20 DPT 87	1439	18	7.35	0.726	-	5.74	21.08	0.40	0.533	-90.7	grey
	1441	↓	7.01	0.845	-	0.72	22.76	0.41	0.550	-97.8	light grey
	1443	↓	7.02	0.851	-	0.54	22.80	0.42	0.553	-98.1	"
		Sampled @	1444								
26-30 DPT 87	1452	28	7.28	0.670	-	6.09	19.31	0.34	0.452	-119.4	grey
	1454	↓	7.16	0.697	-	0.50	22.09	0.34	0.454	-119.6	"
	1456	↓	7.11	0.693	-	0.33	22.84	0.34	0.450	-116.2	light grey
		Sampled @	1457								
31-35 DPT 87	1506	33	7.13	0.735	-	6.29	20.68	0.36	0.487	-137.8	grey
	1508	↓	7.15	0.792	-	0.52	22.24	0.37	0.522	-149.2	light grey
	1510	↓	7.21	0.809	-	0.28	22.97	0.40	0.525	-152.6	"
		Sampled @	1511								
36-40 DPT 87	1522	38	7.14	1.015	-	4.63	20.74	0.54	0.718	-127.2	grey
	1524	↓	7.09	1.222	-	0.42	22.60	0.62	0.807	-132.1	light grey
	1526	↓	7.11	1.275	-	0.27	23.18	0.64	0.829	-133.1	"
		Sampled @	1527								
41-45 DPT 87	1542	43	7.07	1.455	-	4.71	22.60	0.74	0.958	-118.5	light grey
	1544	↓	7.07	1.519	-	0.73	22.67	0.77	0.991	-109.0	"
	1546	↓	7.04	1.541	-	0.47	22.59	0.79	1.004	-100.1	"
		Sampled @	1547								
46-50 DPT 87	1601	48	7.09	1.316	-	4.32	19.38	0.69	0.906	-90.4	grey
	1603	↓	7.13	1.561	-	0.47	21.91	0.79	1.026	-97.7	light grey
	1605	↓	7.13	1.647	-	0.33	22.32	0.83	1.074	-96.6	"
		Sampled @	1606								

Note: Insert units if not provided on sheet. ① Turbidity above 999.9 NTU

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② Specific Conductance failed CCV

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0088

Project Number: FR1681 - Contractors RL

Date: 2/25/10 - 2/26/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity ② mS/cm	Turbidity ① NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT88	1650	10	7.17	0.714	-	6.93	19.58	0.34	0.451	-71.2	light brown
	1652	↓	6.85	0.677	-	1.10	20.43	0.33	0.438	-56.8	"
	1654	↓	6.71	0.667	-	0.58	20.61	0.32	0.432	-50.9	"
		Sampled @	1655								
16-20 DPT088	0945	18	6.13	1.038	-	2.87	19.69	0.51 40.770	0.665	-28.5	light/dk brown
	0947	↓	6.28	1.001	-	0.96	19.99	0.49	0.648	-49.8	"
	0949	↓	6.39	0.983	-	0.73	20.45	0.49	0.637	-39.2	"
		Sampled	0950								
26-30 DPT088	0801	28	6.58	0.889	-	1.93	15.99	0.44	0.575	-96.9	light brown
	0803	↓	6.52	0.885	-	0.64	19.19	0.44	0.578	-90.2	"
	0805	↓	6.55	0.893	-	0.38	20.05	0.44	0.589	-88.4	"
		Sampled	0806								
31-35	0818	33	6.60	0.588	-	0.85	17.93	0.45	0.587	-102.9	light - brown
	0820	↓	6.63	0.922	-	0.42	19.63	0.46	0.601	-113.3	"
	0822	↓	6.66	0.923	-	0.31	20.25	0.46	0.600	-111.1	"
		Sampled	0824								
36-40 DPT088	0836	38	6.71	1.283	-	1.71	19.19	0.66	0.859	-114.3	light grey
	0838	↓	6.76	1.370	-	0.60	20.52	0.70	0.907	-119.8	"
	0840	↓	6.81	1.440	-	0.33	20.74	0.72	0.936	-117.7	"
		sampled	0841								
41-45 DPT088	0854	43	6.99	1.520	-	1.00	18.39	0.78	1.016	-96.6	light brown
	0856	↓	6.92	1.654	-	0.38	20.69	0.84	1.081	-95.1	"
	0858	↓	6.91	1.678	-	0.32	20.31	0.85	1.093	-92.8	"
		Sampled	0900								
46-50 DPT088	0929	48	6.95	1.736	-	0.40	19.46	0.90	1.155	-119.9	
	0931	↓	6.97	1.823	-	0.26	20.19	0.93	1.203	-124.0	
	0933	↓	7.02	1.877	-	0.21	20.56	0.96	1.224	-123.4	

Note: Insert units if not provided on sheet.

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sampled 0935

① Turbidity above 999.9 NTU

② Specific conductance failed CCV both sampling days

DPT GEOCHEMICAL DATA FORM

DPT Location: 0089

Project Number: FR168 - Contractors Rd

Date: 02-26-2010

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity (2) mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT89	1001	10	7.60	0.543	—	4.01	17.78	0.26	0.347	-113.4	dark brown
	1003	↓	7.00	0.514	—	0.68	18.56	0.25	0.231	-123.9	dark brown
	1005	↓	6.83	0.498	—	0.44	18.68	0.24	0.322	-135.5	"
		sampled @ 1006									
16-20 DPT89	1013	18	6.89	0.675	—	1.39	18.40	0.33	0.445	-239.7	brownish-gray
	1015	↓	6.95	0.692	—	0.44	21.15	0.34	0.450	-225.9	"
	1017	↓	7.04	0.688	—	0.29	21.41	0.34	0.447	-243.6	"
		Sampled @ 1018									
26-30 DPT89	1027	28	6.92	0.710	—	1.73	19.07	0.35	0.461	-217.5	brownish gray
	1029	↓	7.02	0.720	—	0.51	21.17	0.35	0.470	-211.5	"
	1031	↓	6.90	0.720	—	0.32	22.15	0.35	0.466	-203.1	"
		Sampled @ 1032									
31-35 DPT89	1043	33	7.02	0.806	—	2.07	20.49	0.40	0.535	-124.1	Lt brown
	1045	↓	6.87	0.838	—	0.45	22.18	0.41	0.545	-133.9	"
	1047	↓	6.82	0.832	—	0.31	22.84	0.41	0.540	-133.4	"
		Sampled @ 1048									
36-40 DPT89	1100	38	7.18	0.893	—	2.14	20.99	0.45	0.594	-104.9	gray
	1102	↓	6.90	0.942	—	0.39	22.87	0.46	0.613	-105.0	"
	1104	↓	6.83	0.943	—	0.33	22.99	0.46	0.612	-106.0	"
		Sampled @ 1105									
41-45 DPT89	1207	43	7.27	1.562	—	1.71	23.50	0.79	1.027	-107.8	Lt brown
	1209	↓	7.10	1.659	—	0.100	24.92	0.86	1.086	-112.8	"
	1211	↓	7.03	1.692	—	0.36	25.24	0.85	1.103	-110.8	"
		Sampled @		1212							
46-50 DPT089	1225	48	7.40	1.897	—	2.93	23.74	0.97	1.246	-105.9	grayish brown
	1227	↓	7.16	1.625	—	0.50	25.04	0.82	1.066	-111.6	"
	1229	↓	7.10	1.668	—	0.34	25.11	0.84	1.087	-109.2	"
		Sampled @		1230							

Note: Insert units if not provided on sheet.

(1) Turbidity above 999.9 NTU

(2) Specific Conductance failed CCV

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DPT GEOCHEMICAL DATA FORM
DPT Location: 0090

Project Number: FR1181 - Contractors Rd
Date: 02-26-16

Screened Interval (ft)	Time DPT Location	Sample Depth (ft)	pH std units	Conductivity ② mS/cm	Turbidity ① NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT90	1255	10	7.60	0.687	–	2.66	23.76	0.34	0.455	-165.7	brown rust colored
	1259	↓	7.10	0.672	–	0.89	23.72	0.33	0.437	-121.0	clear - cloudy
	1301	↓	7.02	0.667	–	0.90	23.45	0.32	0.435	-119.8	clear - slightly cloudy
		Sampled @ 1302									
16-20 DPT90	1310	18	6.85	0.906	–	6.00	24.14	0.45	0.593	-113.5	light brown
	1312	↓	6.83	0.936	–	0.82	25.51	0.46	0.612	-120.6	"
	1314	↓	6.87	0.944	–	0.47	25.21	0.46	0.613	-118.4	"
		Sampled @ 1315									
26-30 DPT90	1329	28	7.10	0.814	–	1.00	25.03	0.40	0.526	-127.1	Lt brown
	1331	↓	6.97	0.797	–	0.22	25.45	0.39	0.516	-130.7	"
	1333	↓	6.93	0.782	–	0.22	25.33	0.38	0.507	-126.6	"
		Sampled @ 1334									
31-35 DPT90	1347	33	7.37	0.747	–	1.73	24.51	0.37	0.489	-123.9	Lt. Brown
	1349	↓	7.16	0.753	–	0.52	24.58	0.37	0.489	-135.3	"
	1351	↓	7.13	0.745	–	0.32	24.66	0.36	0.484	-136.1	"
		Sampled @ 1352									
36-40 DPT90	1423	38	7.30	1.056	–	1.81	25.60	0.52	0.690	-128.4	Lt Brownish Org
	1425	↓	7.18	1.073	–	0.60	25.81	0.53	0.698	-135.5	"
	1427	↓	7.12	1.066	–	0.36	25.45	0.52	0.691	-139.0	"
		Sampled @ 1428									
41-45 DPT90	1441	43	7.30	1.586	–	1.09	26.71	0.80	1.033	-133.1	Lt. Brown
	1443	↓	7.12	1.591	–	0.47	26.68	0.80	1.039	-141.2	"
	1445	↓	7.09	1.604	–	0.39	26.21	0.80	1.041	-139.1	"
		Sampled @ 1446			–						
46-50 DPT90	1459	48	7.46	1.733	–	2.04	25.94	0.99	1.056	-125.1	grayish-brown
	1501	↓	7.16	1.692	–	0.58	26.02	0.86	1.109	-132.9	"
	1503	↓	7.10	1.733	–	0.36	25.80	0.88	1.130	-128.1	"
		Sampled @ 1504									

Note: Insert units if not provided on sheet.

① Turbidity above 999.9 NTU

② Specific Conductance failed QCV

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT 0091

Project Number: FR1681 - Contractor Rel.

Date: 3/1/10

Screened Interval (ft)	Time DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12	0801	10	6.96	0.625	–	10.06	17.52	0.32	0.478	103.6	Brown
DPT91	0803	↓	6.45	0.643	–	2.87	19.95	0.31	0.418	53.4	light brown
	0805	↓	6.33	0.649	–	1.95	20.72	0.32	0.422	-11.3	"
		Sampled @	0806								
16-20	0813	18	6.46	0.650	–	9.30	16.28	0.37	0.501	-65.3	grey
DPT 91	0815	↓	6.58	0.809	–	0.38	21.88	0.40	0.530	-78.8	light grey
	0817	↓	6.70	0.814	–	0.34	22.65	0.40	0.528	-82.7	"
		Sampled @	0818								
26-30	0823	28	6.93	0.676	–	5.41	19.23	0.34	0.453	-108.2	grey
DPT 91	0825	↓	6.95	0.724	–	0.24	22.14	0.35	0.468	-113.5	light grey
	0827	↓	6.95	0.711	–	0.22	22.73	0.35	0.461	-109.1	"
		Sampled @	0828								
31-35	0839	33	7.14	0.511	–	12.16	16.51	0.30	0.403	-101.8	grey
DPT91	0841	↓	7.01	0.677	–	1.40	20.55	0.33	0.444	-118.8	"
	0843	↓	6.97	0.706	–	0.65	22.63	0.34	0.458	-118.5	light grey
		Sampled @	0844								
36-40	0937	38	7.27	0.756	–	4.32	19.36	0.36	0.481	-177.9	grey
DPT 91	0939	↓	7.18	0.717	–	0.91	22.57	0.35	0.468	-188.0	light grey
	0941	↓	7.20	0.740	–	0.45	22.64	0.36	0.483	-187.1	"
		Sampled @	0942								
41-45	0953	43	7.08	01.469	–	0.85	23.93	0.76	0.988	-126.1	light grey
DPT91	0955	↓	7.07	1.605	–	0.31	24.44	0.81	1.053	-126.2	"
	0957	↓	7.06	1.648	–	0.32	24.61	0.83	1.073	-120.0	"
		Sampled @	0958								
46-50	1020	48	7.45	01.581	–	7.48	24.21	0.80	1.048	-95.7	grey
DPT91	1022	↓	7.07	1.749	–	0.64	25.42	0.90	1.161	-103.6	light grey
	1024	↓	7.08	1.872	–	0.37	25.21	0.85	1.219	-105.9	"
		Sampled @	1025								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT6092

Project Number: FR1681 - Contractors Rd.
Date: 3/1/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT 92	1045	10	7.43	0.701	-	7.87	22.57	0.37	0.495	-65.1	grey brown
	1047	↓	7.02	0.750	-	1.00	21.82	0.36	0.485	-59.6	light grey brown
	1049	↓	6.82	0.725	-	0.74	21.43	0.35	0.470	-54.0	"
		Sampled @	1050								
12-16 DPT 92	1055	14	6.78	0.746	-	7.42	22.94	0.47	0.622	-67.8	grey
	1057	↓	6.74	0.971	-	0.52	25.45	0.48	0.630	-74.7	light grey
	1059	↓	6.74	0.949	-	0.51	23.09	0.47	0.616	-76.1	"
		Sampled @	1100								
16-20 ~~20-30~~ DPT 92	1105	18	6.71	1.014	-	1.29	24.12	0.50	0.664	-85.6	grey
	1107	↓	6.74	1.015	-	0.60	23.86	0.50	0.657	-81.9	light grey
	1109	↓	6.73	0.991	-	0.45	23.50	0.49	0.642	-75.3	"
		Sampled @	1110								
26-30 DPT 92	1116	28	7.31	1.001	-	10.54	22.89	0.50	0.656	-88.7	grey
	1118	↓	6.93	1.061	-	0.77	24.05	0.53	0.699	-90.8	"
	1120	↓	6.79	1.086	-	0.54	24.13	0.54	0.706	-82.7	light grey
		Sampled @	1121								
31-35 DPT 92	1202	33	7.49	1.189	-	10.37	22.22	0.59	0.772	-100.3	grey
	1204	↓	7.15	1.225	-	0.71	23.77	0.61	0.803	-91.4	"
	1206	↓	7.02	1.239	-	0.58	24.11	0.62	0.804	-92.4	light grey
		Sampled @	1207								
36-40 DPT 92	1228	38	7.10	1.393	-	7.66	24.79	0.68	0.897	-112.7	grey
	1230	↓	6.96	1.521	-	0.61	25.75	0.77	0.998	-113.0	light grey
	1232	↓	6.94	1.559	-	0.41	24.98	0.78	01.012	-102.0	"
		Sampled @	1233								
41-45 DPT 92	1244	43	7.05	1.473	-	3.81	25.24	0.77	1.002	-107.8	grey
	1246	↓	7.02	1.667	-	0.44	25.51	0.85	1.096	-111.6	light grey
	1248	↓	7.03	1.705	-	0.38	25.05	0.86	1.109	-107.3	"
		Sampled @	1249								
46-50 DPT 92	1301	48	7.18	1.661	-	3.10	25.17	0.86	1.101	-116.6	grey
	1303	↓	7.14	1.801	-	0.43	25.50	0.91	1.178	-113.5	"
	1305	↓	7.12	1.836	-	0.35	25.16	0.92	1.187	-107.0	light grey
		Sampled @ 1306									

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0093

Project Number: FR1681 - Contractors RL
Date: 3/1/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12 DPT93	1329	10	7.52	0.785	-	6.12	24.98	0.38	0.506	-81.0	Gray Brown
	1331	↓	7.09	0.763	-	0.68	25.14	0.37	0.494	-75.2	light gray brown
	1333	↓	6.92	0.748	-	0.50	22.28	0.36	0.485	-70.7	"
		Sampled @	1334								
12-16 DPT93	1339	14	6.91	0.885	-	4.76	24.90	0.44	0.582	-81.3	light gray brown
	1341	↓	6.86	0.901	-	0.57	24.50	0.44	0.584	-81.9	"
	1343	↓	6.85	0.887	-	0.43	24.17	0.43	0.576	-83.8	"
		Sampled @	1344								
16-20 DPT93	1350	18	6.96	0.877	-	3.56	25.51	0.43	0.577	-93.2	light gray
	1352	↓	6.88	0.885	-	0.48	25.23	0.43	0.573	-85.1	"
	1354	↓	6.83	0.872	-	0.48	24.80	0.43	0.566	-77.7	"
		Sampled @	1355								
26-30 DPT93	1414	28	7.16	0.654	-	4.96	24.04	0.34	0.547	-101.0	gray
	1416	↓	6.98	0.844	-	0.64	25.02	0.41	0.547	-104.6	light gray
	1418	↓	6.94	0.833	-	0.39	24.98	0.41	0.541	-94.0	"
		Sampled @	1419								
31-35 DPT93	1428	33	7.13	0.786	-	7.22	24.80	0.45	0.602	-100.3	gray
	1430	↓	7.02	0.793	-	0.48	25.69	0.49	0.648	-112.5	light gray
	1432	↓	7.02	0.997	-	0.27	25.39	0.49	0.646	-116.6	"
		Sampled @	1433								
36-40 DPT93	1444	38	7.12	1.381	-	5.76	24.37	0.69	0.906	-124.5	light gray
	1446	↓	6.97	1.482	-	0.42	25.97	0.75	0.978	-124.1	"
	1448	↓	7.00	1.525	-	0.34	25.55	0.76	0.991	-127.4	"
		Sampled @	1449								
41-45 DPT93	1459	43	7.26	1.555	-	6.50	24.30	0.81	1.051	-110.7	gray
	1501	↓	7.11	1.746	-	0.44	25.12	0.89	1.152	-112.0	light gray
	1503	↓	7.06	1.803	-	0.42	25.00	0.91	1.174	-106.5	"
		Sampled @	1504								
46-50 DPT93	1516	48	7.15	1.734	-	8.13	24.58	0.92	1.197	-103.9	gray
	1518	↓	7.15	1.617	-	0.21	25.11	0.82	1.062	-110.5	light gray
	1520	↓	7.12	1.667	-	0.17	24.87	0.84	1.085	-107.7	"
		Sampled @	1521								

Note: Insert units if not provided on sheet.

(1) Turbidity above 999.9 NTU

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0094

Project Number: FR1681 - Contractor Rd

Date: 3/10/10 - 3/11/10

Screened Interval (ft)	DPT Location (Time)	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-12	1550	10	7.95	0.435	-	10.41	24.80	0.22	0.293	-70.8	Dark Brown
DPT 94	1552	↓	7.16	0.440	-	2.57	22.72	0.21	0.281	-58.6	"
	1554	↓	6.76	0.392	-	0.77	21.82	0.19	0.252	-47.2	"
		Sampled @ 1555									
16-20	1607	18	6.39	~~0.660~~ 7.98	-	2.79	23.79	0.32	0.433	-68.9	grey
DPT 94	1609	↓	6.66	0.563	-	0.47	24.29	0.32	0.427	-96.9	light grey
	1611	↓	6.86	0.639	-	0.28	23.95	0.31	0.414	-116.6	"
		Sampled @ 1612									
26-30	1623	28	6.93	0.821	-	8.69	23.57	0.40	0.533	-114.1	grey
DPT 94	1625	↓	6.77	0.867	-	0.55	24.86	0.43	0.569	-112.2	"
	1627	↓	6.74	0.864	-	0.36	24.64	0.42	0.560	-105.5	light grey
		Sampled @ 1628									
31-35	0742	33	6.49	1.033	-	1.37	21.51	0.50	0.661	-57.5	grey
DPT 94	0744	↓	6.49	1.005	-	0.33	26.65	0.47	0.649	-43.1	light grey
	~~0746~~	↓	Phase II		weather	Alert					
		Sampled @ ~~0747~~ 0745									
36-40	0841	38	7.11	1.028	-	4.93	19.32	0.52	0.687	-100.1	grey
DPT 94	0843	↓	6.95	1.128	-	2.49	21.96	0.56	0.721	-117.8	"
	0845	↓	6.95	1.075	-	0.67	22.28	0.53	0.696	-114.6	light grey
		Sampled @ 0846									
41-45	0858	43	6.84	1.746	-	10.13	18.62	0.64	0.837	-110.2	grey
DPT 94	0900	↓	6.98	1.383	-	1.07	20.94	0.71	0.921	-115.8	light grey
	0902	↓	7.02	1.501	-	0.51	22.31	0.76	0.979	-117.4	"
		Sampled @ 0903									
46-50	0915	48	7.09	1.352	-	10.04	18.76	0.65	0.854	-111.7	grey
DPT 94	0917	↓	7.06	1.463	-	0.74	21.56	0.75	0.969	-118.0	"
	0919	↓	7.12	1.589	-	0.39	22.15	0.80	1.033	-118.3	light grey
		Sampled @ 0920									

Note: Insert units if not provided on sheet.

(1) Turbidity above 999.9 NTU

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DNS

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0095

Project Number: ER1681 - Contractors Rd

Date: 3/24/10

Screened Interval (ft)	DPT Location / Time	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
		10									
8-16 DPT95	1012	↓	7.62	0.445	-	6.32	19.38	0.20	0.269	-62.4	Dark Brown
	1014	↓	6.96	0.347	-	1.72	20.09	0.16	0.221	-53.2	"
	1016	↓	6.65	0.331	-	0.87	20.07	0.16	0.216	-42.4	"
		Sampled @	1017								
16-20 DPT95	1023	18	6.08	0.811	-	8.08	21.06	0.41	0.541	-91.9	grey brown
	1025	↓	6.45	0.880	-	0.66	23.26	0.43	0.571	-73.0	light grey brown
	1027	↓	6.64	0.869	-	0.41	23.16	0.43	0.563	-83.3	"
		Sampled @	1028								
26-30 DPT95	1036	28	6.97	0.745	-	8.35	20.18	0.40	0.537	-95.9	grey
	1038	↓	6.78	0.880	-	0.49	22.35	0.44	0.579	-89.5	light grey
	1040	↓	6.68	0.902	-	0.45	23.30	0.44	0.589	-83.2	"
		Sampled @	1041								
31-35 DPT95	1050	33	7.01	0.749	-	6.82	21.46	0.39	0.510	-103.8	grey
	1052	↓	6.82	0.831	-	0.47	23.69	0.41	0.545	-99.3	light grey
	1054	↓	6.74	0.841	-	0.42	24.02	0.41	0.546	-90.1	"
		Sampled @	1055								
		~~38~~			-						
36-40 DPT95	1105	↓	7.05	0.676	-	6.57	21.89	0.35	0.467	-125.1	grey
	1107	↓	7.01	0.727	-	0.48	23.40	0.35	0.474	-126.5	light grey
	1109	↓	6.99	0.738	-	0.27	23.75	0.36	0.478	-123.2	"
		Sampled @	1110								
41-45 DPT95	1120	43	6.97	0.809	-	9.52	21.50	0.41	0.544	-113.0	grey
	1122	↓	7.04	0.970	-	0.52	23.34	0.51	0.687	-113.6	"
	1124	↓	7.07	1.135	-	0.26	23.68	0.56	0.741	-110.4	light grey
		Sampled @	1125								
46-50 DPT95	1212	48	7.25	1.060	-	8.80	23.67	0.65	0.859	-93.7	grey
	1214	↓	7.17	1.503	-	0.76	24.87	0.76	0.985	-99.7	light grey
	1216	↓	7.17	1.546	-	0.36	24.53	0.78	01.005	-98.7	"
		Sampled @	1217								

Note: Insert units if not provided on sheet. (1) Turbidity above 999.9 NTU

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DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0096

Project Number: FR1681 - Contractors Rd
Date: 3/10/10

Screened Interval (ft)	Time / DPT Location	Sample Depth (ft)	pH std units	Conductivity mS/cm	Turbidity (1) NTUs	Diss. O_2 g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	Color
8-10 DPT96	1256	10	7.40	0.544	–	7.25	21.16	0.26	0.347	-64.6	Dark Brown
	1258	↓	7.44	0.520	–	0.99	20.60	0.25	0.335	-64.2	Brown
	1300	↓	7.13	0.507	–	0.57	20.25	0.24	0.329	-55.7	"
		Sampled @	1301								
16-20 DPT96	1308	18	6.74	0.610	–	5.47	22.80	0.31	0.403	-89.0	Brown grey
	1310	↓	6.81	0.661	–	0.51	23.38	0.33	0.428	-109.2	light grey
	1312	↓	6.90	0.648	–	0.36	23.02	0.31	0.421	-107.3	"
		1313 ←	Sampled @								
26-30 DPT96	1321	28	6.83	0.810	–	8.54	21.96	0.40	0.537	-101.1	grey
	1323	↓	6.88	0.915	–	0.50	23.47	0.46	0.604	-104.3	"
	1325	↓	6.86	0.945	–	0.38	23.48	0.47	0.615	-99.2	light grey
		Sampled @	1326								
31-35 DPT96	1330	33	6.90	1.021	–	4.89	23.51	0.52	0.699	-116.4	grey
	1338	↓	6.93	1.133	–	0.34	23.88	0.56	0.737	-114.1	"
	1340	↓	6.91	1.154	–	0.32	23.54	0.56	0.730	-103.5	light grey
		Sampled @	1341								
36-40 DPT96	1356	38	6.91	1.282	–	3.02	23.25	0.66	0.863	-115.7	Grey
	1358	↓	6.96	1.366	–	0.24	23.51	0.68	0.890	-113.2	light grey
	1400	↓	6.97	1.367	–	0.17	23.09	0.68	0.889	-108.4	"
		Sampled @	1401								
41-45 DPT96	1413	43	7.07	1.143	–	8.10	22.23	0.59	0.770	-110.0	Grey
	1415	↓	7.04	1.260	–	0.43	23.34	0.64	0.838	-114.7	"
	1417	↓	7.05	1.330	–	0.24	23.38	0.65	0.863	-112.5	light grey
		Sampled @	1418								
46-50 DPT96	1430	48	7.10	1.274	–	6.26	22.12	0.66	0.869	-106.1	grey
	1432	↓	7.08	1.468	–	0.30	23.07	0.75	0.967	-112.3	"
	1434	↓	7.07	1.506	–	0.14	23.09	0.76	0.980	-108.0	light grey
		Sampled @	1435								

Note: Insert units if not provided on sheet (1) Turbidity above 999.9 NTU

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0097 (B)

Project Number: FR1681

Date: 6/14/10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0910	8-12	6.49	1.109	—	5.51	25.51	0.54	0.709	67.8
0912	8-12	6.51	1.081	—	4.99	25.15	0.53	0.699	63.6
0914	8-12	6.51	1.074	—	4.75	25.10	0.53	0.696	61.3
	Sampled at 0916								
0920	12-16	6.80	1.314	—	2.52	25.82	0.64	0.831	-15.5
0922	12-16	6.75	1.259	—	2.02	25.30	0.62	0.809	-9.1
0924	12-16	6.72	1.232	—	1.94	24.96	0.61	0.797	-5.7
	Sampled at 0925								
0934	16-20	6.78	1.474	—	1.75	26.66	0.71	0.923	-54.6
0936	16-20	6.79	1.452	—	1.55	26.22	0.70	0.917	-50.1
0938	16-20	6.78	1.429	—	1.58	25.83	0.70	0.910	-46.3
	Sampled at 0939								
0945	21-25	6.92	1.576	—	1.19	27.39	0.75	0.974	-58.8
0947	21-25	6.86	1.554	—	1.58	26.55	0.75	0.969	-55.5
0949	21-25	6.79	1.504	—	1.56	25.95	0.74	0.955	-48.1
	Sampled at 0950								
1000	26-30	7.09	1.488	—	0.90	28.94	0.68	0.885	-85.2
1002	26-30	7.03	1.430	—	0.83	27.72	0.67	0.873	-75.5
1004	26-30	6.99	1.397	—	0.89	26.97	0.67	0.872	-71.8
	Sampled at 1005								
1018	31-35	7.12	1.622	—	0.71	28.70	0.75	0.972	-91.9
1020	31-35	7.04	1.556	—	0.72	27.26	0.73	0.955	-81.0
1022	31-35	6.96	1.486	—	0.73	26.59	0.71	0.931	-73.0
	Sampled at 1023								
1040	36-40	7.15	2.336	—	1.54	28.17	1.12	1.429	-121.5
1042	36-40	7.10	2.323	—	1.57	27.73	1.12	1.432	-116.0
1044	36-40	7.01	2.284	—	1.53	27.08	1.12	1.427	-106.7
	Sampled at 1045								
1120	41-45	7.26	2.559	—	0.45	29.73	1.23	1.575	-124.0
1122	41-45	7.21	2.581	—	0.40	28.28	1.25	1.583	-114.2
1124	41-45	7.16	2.555	—	0.37	27.45	1.25	1.582	-104.5
	Sampled at 1125								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0097 (B)

Project Number: FR1681

Date: 6/14/10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1142	46-50	7.11	2.880	—	1.41	32.08	1.31	1.682	-146.8
1144	46-50	7.15	2.949	—	1.36	31.25	1.35	1.726	-147.5
1146	46-50	7.16	2.975	—	1.34	30.82	1.37	1.747	-146.0
	Sampled at 1147								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0098 (A)

Date: 6/14/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1345	8-12	6.83	0.890	—	0.72	28.06	0.40	0.538	-28.0
1347	8-12	6.81	0.864	—	0.68	27.60	0.40	0.529	-27.0
1349	8-12	6.78	0.845	—	0.66	27.18	0.39	0.523	-26.6
	Sampled at 1350								
1355	12-16	7.08	1.162	—	0.53	29.25	0.52	0.685	-89.5
1357	12-16	7.00	1.080	—	0.41	27.47	0.50	0.663	-72.6
1359	12-16	6.93	1.053	—	0.42	26.87	0.50	0.654	-65.8
	Sampled at 1400								
1410	16-20	6.88	1.249	—	0.38	27.13	0.59	0.770	-63.0
1412	16-20	6.83	1.220	—	0.38	26.89	0.58	0.759	-60.1
1414	16-20	6.80	1.190	—	0.41	26.56	0.57	0.748	-57.6
	Sampled at 1415								
1425	21-25	6.92	1.286	—	2.19	29.83	0.58	0.766	-92.6
1427	21-25	6.83	1.231	—	2.27	27.70	0.57	0.756	-77.0
1429	21-25	6.78	1.194	—	2.25	26.89	0.57	0.744	-72.1
	Sampled at 1430								
1442	26-30	6.93	1.205	—	1.13	29.17	0.55	0.721	-94.1
1444	26-30	6.88	1.158	—	1.15	27.33	0.54	0.719	-88.3
1445	26-30	6.86	1.149	—	1.11	27.29	0.54	0.711	-88.3
	Sampled at 1446								
1500	31-35	6.92	1.496	—	0.68	1.489	0.68	0.897	-114.3
1502	31-35	6.94	1.463	—	0.66	1.454	0.68	0.887	-103.9
1504	31-35	6.90	1.400	—	0.80	1.395	0.66	0.860	-101.7
	Sampled at 1505								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0098(A)

Project Number: FR1681

Date: 6/14/10

DPT Location (Time)	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1530	36-40	6.90	2.056	—	0.71	32.05	0.97	1.262	-151.7
1532	36-40	6.99	2.226	—	0.50	28.95	1.05	1.352	-126.3
1534	36-40	6.94	2.189	—	0.53	28.31	1.05	1.341	-119.7
	Sampled at 1535								
1552	41-45	7.10	2.361	—	0.65	27.98	1.11	1.423	-127.3
1554	41-45	7.03	2.315	—	0.56	27.62	1.11	1.420	-121.8
1556	41-45	7.00	2.294	—	0.53	27.53	1.12	1.429	-120.4
	Sampled at 1557								
1619	46-50	7.22	2.645	—	0.40	28.70	1.23	1.557	-148.8
1621	46-50	7.18	2.584	—	0.42	28.11	1.24	1.592	-140.0
1623	46-50	7.15	2.571	—	0.42	27.97	1.23	1.560	-138.6
	Sampled at 1624								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0099(D)

Project Number: FR1681

Date: 6/14/10 & 6/15/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
6/14/10									
1820	8-12	7.16	0.739	—	0.93	27.33	0.33	0.437	-41.6
1822	8-12	7.04	0.684	—	0.62	26.76	0.31	0.423	-39.9
1824	8-12	6.98	0.665	—	0.57	26.40	0.31	0.418	-39.6
	Sampled at 1825								
1832	12-16	6.90	0.886	—	1.55	27.10	0.40	0.533	-95.0
1834	12-16	6.95	0.823	—	1.48	26.72	0.39	0.513	-86.0
1836	12-16	6.93	0.796	—	1.55	26.71	0.38	0.502	-79.3
	Sampled at 1837								
6/15/10									
0746	16-20	6.64	0.945	—	1.06	24.68	0.47	0.616	-67.9
0748	16-20	6.67	0.923	—	1.08	24.48	0.46	0.603	-62.6
0750	16-20	6.68	0.906	—	1.38	24.30	0.45	0.595	-61.0
	Sampled at 0751								
0800	21-25	6.75	1.095	—	1.28	25.26	0.54	0.705	-96.7
0802	21-25	6.73	1.081	—	1.28	25.06	0.53	0.698	-88.8
0804	21-25	6.71	1.070	—	1.28	24.91	0.53	0.692	-84.2
	Sampled at 0805								
0816	26-30	6.74	1.198	—	0.76	25.40	0.59	0.770	-79.6
0818	26-30	6.72	1.185	—	0.77	25.18	0.58	0.765	-74.6
0820	26-30	6.70	1.177	—	0.77	25.03	0.58	0.763	-70.3
	Sampled at 0821								
0842	31-35	6.91	1.551	—	0.63	26.41	0.76	0.984	-130.9
0844	31-35	6.93	1.553	—	0.60	26.14	0.76	0.987	-135.0
0846	31-35	6.95	1.547	—	0.60	25.79	0.74	0.967	-111.4
	Sampled at 0847								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0099 (D)

Date: 6/15/10

~~DPT~~ JRG Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0907	36-40	6.87	1.920	—	0.69	25.62	0.95	1.220	-105.2
0909	36-40	6.84	1.951	—	0.71	25.42	0.98	1.262	-105.2
0911	36-40	6.86	1.957	—	0.70	25.78	0.98	1.259	-103.8
	Sampled at 0912								
0926	41-45	7.09	1.974	—	0.56	26.48	0.97	1.250	-130.7
0928	41-45	7.06	1.943	—	0.55	26.14	0.96	1.236	-122.0
0930	41-45	7.03	1.944	—	0.57	25.98	0.97	1.245	-119.5
	Sampled at 0931								
0947	46-50	7.21	2.035	—	0.51	26.95	1.00	1.281	-144.9
0949	46-50	7.17	2.030	—	0.56	26.61	1.00	1.278	-129.1
0951	46-50	7.09	2.026	—	0.61	26.44	1.01	1.289	-122.9
	Sampled at 0952								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0100

Project Number: FR1681

Date: 6/15/10

DPT Location (Time)	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1042	8-12	6.88	0.846	—	0.91	26.54	0.39	0.525	-44.9
1044	8-12	6.82	0.822	—	0.93	26.22	0.39	0.516	-41.3
1046	8-12	6.77	0.806	—	1.00	26.03	0.38	0.510	-40.9
	Sampled at 1047								
~~1052~~									
1052	12-16	6.85	1.044	—	1.28	27.08	0.49	0.645	-97.9
1054	12-16	6.87	1.014	—	1.22	26.43	0.48	0.635	-90.1
1056	12-16	6.85	0.983	—	1.20	26.17	0.47	0.613	-82.6
	Sampled at 1057								
1105	16-20	6.86	1.005	—	0.90	26.97	0.47	0.620	-90.8
1107	16-20	6.81	0.957	—	0.90	26.78	0.45	0.593	-85.9
1109	16-20	6.77	0.944	—	0.93	26.47	0.45	0.597	-82.3
	Sampled at 1110								
1115	21-25	6.82	0.989	—	0.88	27.91	0.45	0.599	-111.9
1117	21-25	6.80	0.945	—	0.88	27.21	0.44	0.581	-104.4
1119	21-25	6.77	0.921	—	0.91	26.89	0.43	0.569	-100.4
	Sampled at 1120								
1131	26-30	6.88	0.847	—	1.31	29.41	0.37	0.492	-111.6
1133	26-30	6.85	0.813	—	1.10	28.83	0.36	0.489	-106.5
1135	26-30	6.82	0.803	—	1.02	28.56	0.36	0.487	-103.3
	Sampled at 1136								
1145	31-35	7.05	1.697	—	1.12	28.58	0.77	1.000	-130.3
1147	31-35	6.99	1.597	—	0.80	27.16	0.76	0.985	-126.0
1149	31-35	6.95	1.561	—	0.74	26.86	0.75	0.976	-120.5
	Sampled at 1150								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0100

Date: 6/15/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1308	36-40	7.00	1.990	—	0.73	28.10	0.94	1.209	-89.5
1310	36-40	6.93	1.952	—	0.69	27.62	0.93	1.198	-83.1
1312	36-40	6.88	1.923	—	0.65	27.34	0.92	1.189	-79.2
	Sampled at 1313								
1327	41-45	6.88	2.002	—	0.96	33.48	0.90	1.142	-150.2
1329	41-45	7.03	2.067	—	0.78	32.30	0.75	1.200	-162.3
1331	41-45	7.06	2.117	—	0.73	31.47	0.74	1.244	-165.0
	Sampled at 1332								
1349	46-50	7.20	2.054	—	0.47	33.86	0.87	1.142	-211.7
1351	46-50	7.28	2.149	—	0.46	31.35	1.00	1.307	-205.7
1353	46-50	7.28	2.276	—	0.47	29.99	1.07	1.385	-199.6
	Sampled at 1354								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0101 (E)

Date: 6/15/10

~~DPT~~ Time ~~Location~~ Jar	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1524	8-12	7.03	0.757	—	1.70	25.75	0.36	0.484	-37.4
1526	8-12	6.97	0.748	—	1.29	25.62	0.36	0.476	-37.4
1528	8-12	6.84	0.735	—	1.20	25.12	0.35	0.473	-38.4
	Sampled at 1529								
1533	12-16	6.70	0.977	—	1.58	26.98	0.46	0.611	-99.1
1535	12-16	6.78	0.958	—	1.39	25.92	0.45	0.601	-94.7
1537	12-16	6.77	0.927	—	1.32	25.11	0.45	0.593	-82.6
	Sampled at 1538								
1543	16-20	7.02	0.988	—	0.79	26.52	0.48	0.643	-110.4
1545	16-20	6.92	1.024	—	0.76	25.96	0.50	0.657	-99.7
1547	16-20	6.85	1.026	—	0.78	25.27	0.50	0.658	-89.9
	Sampled at 1548								
1555	21-25	7.89	0.787	—	1.04	26.90	0.41	0.554	-162.7
1557	21-25	7.35	0.914	—	0.75	25.92	0.47	0.628	-140.1
1559	21-25	7.20	0.997	—	0.73	25.58	0.49	0.651	-117.8
	Sampled at 1600								
				—					
1608	26-30	7.37	0.911	—	0.77	25.59	0.44	0.589	-126.2
1610	26-30	7.31	0.915	—	0.77	25.44	0.44	0.583	-144.1
1612	26-30	7.15	0.890	—	0.98	25.17	0.44	0.579	-131.1
	Sampled at 1613								
1623	31-35	7.79	1.059	—	0.72	27.45	0.53	0.702	-202.5
1625	31-35	7.78	1.158	—	0.68	27.17	0.56	0.733	-193.0
1627	31-35	7.73	1.191	—	0.66	27.04	0.57	0.752	-189.5
	Sampled at 1628								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0101 (E)

Date: 6/15/10

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1641	36-40	7.37	1.786	—	0.61	26.92	0.86	1.111	-177.3
1643	36-40	7.19	1.774	—	0.63	26.89	0.86	1.107	-166.8
1645	36-40	7.12	1.757	—	0.66	26.76	0.84	1.084	-161.5
	Sampled at 1646								
1700	41-45	7.70	1.898	—	0.61	27.46	0.98	1.295	-178.5
1702	41-45	7.35	2.069	—	0.63	26.60	1.02	1.309	-161.0
1704	41-45	7.20	2.077	—	0.66	26.36	1.03	1.320	-152.8
	Sampled at 1705								
~~1719~~	46-50	No readings taken							
~~1721~~	46-50	due to	—						
~~1723~~	46-50	low recovery	—						
	Sampled at 1724								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0102 (F)

Date: 6/16/10

~~DPT Location~~ Time (HRS)	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0808	8-12	6.47	1.085	—	0.50	27.77	0.50	0.662	-89.0
0810	8-12	6.45	1.062	—	0.54	27.40	0.49	0652	-84.3
0812	8-12	6.42	1.040	—	0.67	27.21	0.49	0.646	-79.7
	Sampled at 0813								
0830	12-16	6.35	1.085	—	1.46	28.86	0.57	0.757	-100.4
0832	12-16	6.60	1.252	—	0.99	27.82	0.58	0.763	-100.0
0834	12-16	6.65	1.214	—	0.85	27.06	0.57	0.752	-92.0
	Sampled at 0835								
0845	16-20	6.81	1.253	—	0.44	27.44	0.59	0.770	-105.0
0847	16-20	6.80	1.227	—	0.44	26.97	0.58	0.755	-93.1
0849	16-20	6.80	1.195	—	0.46	26.76	0.57	0.747	-90.7
	Sampled at 0850								
0855	21-25	6.80	1.190	—	0.78	27.84	0.55	0.730	-109.8
0857	21-25	6.76	1.189	—	0.61	27.53	0.56	0.731	-103.3
0859	21-25	6.73	1.172	—	0.56	27.22	0.55	0.725	-101.6
	Sampled at 0900								
0912	26-30	6.74	1.066	—	0.52	28.24	0.49	0.646	-120.7
0914	26-30	6.78	1.038	—	0.39	27.33	0.48	0.642	-115.3
0916	26-30	6.80	0.986	—	0.39	27.14	0.45	0.598	-105.7
	Sampled at 0917								
0932	31-35	7.93	1.305	—	0.70	30.96	0.58	0.765	-164.8
0934	31-35	7.07	1.347	—	0.63	30.34	0.60	0.794	-115.5
0936	31-35	6.97	1.313	—	0.48	28.79	0.60	0.787	-118.4
	Sampled at 0937								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0102 (FI)

Date: 6/16/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0955	36-40	7.18	1.834	—	0.74	30.19	0.89	1.181	-179.3
0957	36-40	7.11	2.064	—	0.58	29.31	0.99	1.276	-172.4
0959	36-40	7.06	2.120	—	0.59	28.20	1.01	1.294	-146.8
	Sampled	at 1000							
1013	41-45	7.08	2.226	—	0.41	30.18	1.01	1.293	-165.1
1015	41-45	7.09	2.166	—	0.42	30.01	0.98	1.264	-165.0
1017	41-45	7.09	2.105	—	0.44	29.88	0.95	1.227	-165.2
	Sampled	at 1018							
1035	46-50	7.14	2.587	—	0.29	30.34	1.20	1.542	-189.5
1037	46-50	7.13	2.612	—	0.29	29.94	1.21	1.546	-190.1
1039	46-50	7.13	2.591	—	0.28	29.69	1.21	1.535	-190.4
	Sampled	at 1040							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0103 (G)

Project Number: FR1681

Date: 6/16/10

~~DPT Location~~ Time 180	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1125	8-12	6.66	1.291	—	0.62	31.10	0.56	0.738	-105.0
1127	8-12	6.64	1.248	—	0.67	30.78	0.55	0.725	-105.9
1129	8-12	6.63	1.231	—	0.84	30.55	0.54	0.719	-107.2
	Sampled at 1130								
1131	12-16	6.62	0.979	—	0.73	32.32	0.40	0.539	-125.1
1133	12-16	6.63	0.932	—	0.55	32.27	0.39	0.524	-127.4
1135	12-16	6.63	0.908	—	0.51	32.15	0.38	0.514	-129.2
	Sampled at 1136								
1144	16-20	6.70	0.904	—	0.26	31.88	0.38	0.506	-154.1
1146	16-20	6.71	0.856	—	0.27	31.53	0.37	0.492	-155.8
1148	16-20	6.71	0.837	—	0.28	31.22	0.36	0.488	-156.4
	Sampled at 1149								
1155	21-25	6.73	0.760	—	0.43	32.02	0.32	0.442	-166.4
1157	21-25	6.74	0.701	—	0.28	31.80	0.26	0.540	-166.6
1159	21-25	6.74	0.532	—	0.30	31.38	0.30	0.309	-166.4
	Sampled at 1200								
1211	26-30	6.71	0.540	—	0.38	31.24	0.23	0.309	-162.6
1213	26-30	6.71	0.532	—	0.32	31.29	0.22	0.306	-157.2
1215	26-30	6.68	0.514	—	0.69	30.73	0.22	0.300	-150.4
	Sampled at 1216								
1326	31-35	6.83	1.367	—	1.03	0.789	0.60	0.788	-130.5
1328	31-35	6.74	1.307	—	0.83	0.770	0.58	0.770	-113.1
1330	31-35	6.70	1.294	—	0.91	0.766	0.58	0.761	-108.3
	Sampled at 1331								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0103(G)

Project Number: FR 1681

Date: 6/26/10

DPT ~~Location~~ JRH	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1341	36-40	6.87	2.248	—	0.26	31.51	1.03	1.328	-138.8
1343	36-40	6.90	2.267	—	0.27	30.24	1.04	1.335	-129.0
1345	36-40	6.87	2.241	—	0.27	29.91	1.03	1.330	-120.9
	Sampled at 1346								
1405	41-45	6.91	2283	—	0.31	28.94	1.07	1.377	-115.7
1407	41-45	6.87	2.264	—	0.33	28.70	1.07	1.368	-110.1
1409	41-45	6.84	2.240	—	0.37	28.58	1.06	1.363	-107.4
	Sampled at 1410								
1500	46-50	7.16	1.666	—	0.65	35.16	0.69	0.905	-177.8
1502	46-50	7.11	1.608	—	0.62	33.96	0.67	0.881	-166.3
1504	46-50	7.07	1.554	—	0.72	32.49	0.66	0.874	-147.7
	Sampled at 1505								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Time DPT0104 (H)

Date: 6/16/16

DPT Location ~~Time~~	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1543	8-12	6.77	0.679	—	0.50	28.48	0.30	0.410	-87.2
1545	8-12	6.49	0.655	—	0.45	27.69	0.30	0.404	-44.3
1547	8-12	6.37	0.650	—	0.43	27.51	0.30	0.402	-42.2
	Sampled at 1548								
1555	12-16	6.35	0.653	—	0.76	28.77	0.27	0.361	-9.7
1557	12-16	6.61	0.585	—	0.66	28.08	0.26	0.354	-85.1
1559	12-16	6.60	0.567	—	0.61	27.70	0.26	0.349	-80.7
	Sampled at 1600								
1609	16-20	6.79	0.594	—	0.28	28.64	0.26	0.350	-114.0
1611	16-20	6.93	0.560	—	0.29	28.16	0.25	0.339	-107.8
1613	16-20	6.91	0.550	—	0.30	27.79	0.25	0.337	-103.6
	Sampled at 1614								
1621	21-25	6.86	0.416	—	0.25	29.12	0.25	0.243	-132.5
1623	21-25	6.87	0.395	—	0.26	28.31	0.18	0.242	-118.2
1625	21-25	6.83	0.398	—	0.29	27.81	0.17	0.240	-108.7
	Sampled at 1626								
1634	26-30	6.74	0.360	—	0.40	29.76	0.15	0.223	-142.6
1636	26-30	6.90	0.397	—	0.27	29.21	0.17	0.228	-130.9
1638	26-30	6.86	0.353	—	0.27	28.76	0.15	0.204	-122.7
	Sampled at 1639								
1648	31-35	6.76	0.334	—	0.29	29.30	0.14	0.198	-130.7
1650	31-35	6.81	0.329	—	0.17	29.37	0.14	0.197	-133.6
1652	31-35	6.87	0.328	—	0.18	29.44	0.14	0.196	-137.8
	Sampled at 1653								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0104 (H)

Date: 6/16/10 & 6/17/10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1703	36-40	7.02	0.372	—	0.16	30.28	0.16	0.223	-168.7
1705	36-40	7.05	0.384	—	0.17	30.25	0.17	0.231	-168.4
1707	36-40	7.04	0.398	—	0.17	30.17	0.18	0.243	-166.6
	Sampled at 1708								
6/17/10 0804	41-45	6.84	2.074	—	0.60	26.53	1.04	1.333	-70.9
0806	41-45	6.83	2.108	—	0.48	26.33	1.04	1.336	-63.0
0808	41-45	6.81	2.106	—	0.46	26.24	1.04	1.336	-57.5
	Sampled at 0809								
0829	46-50	6.98	2.195	—	0.32	28.07	1.08	1.279	-131.3
0831	46-50	6.97	2.086	—	0.31	27.47	1.02	1.306	-138.1
0833	46-50	7.00	2.106	—	0.29	27.20	1.03	1.316	-142.0
	Sampled at 0834								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0105 (I)

Project Number: FR1681

Date: 6/17/10

~~DPT Location~~ Time	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0918	8-12	6.78	1.130	—	0.47	29.86	0.50	0.656	-133.0
0920	8-12	6.63	1.048	—	0.42	29.00	0.47	0.630	-135.9
0922	8-12	6.58	1.030	—	0.75	28.60	0.47	0.625	-143.7
	Sampled at 0923								
0928	12-16	6.54	1.183	—	0.30	30.39	0.52	0.686	-195.7
0930	12-16	6.58	1.138	—	0.31	29.85	0.51	0.674	-186.2
0932	12-16	6.59	1.125	—	0.36	29.47	0.51	0.672	-195.1
	Sampled at 0933								
0943	16-20	6.65	1.024	—	0.10	30.86	0.43	0.573	-172.6
0945	16-20	6.67	0.912	—	0.09	29.96	0.40	0.536	-161.2
0947	16-20	6.68	0.875	—	0.09	29.52	0.39	0.521	-153.4
	Sampled at 0948								
0955	21-25	6.77	1.233	—	0.47	30.51	0.55	0.728	-164.1
0957	21-25	6.80	1.226	—	0.40	30.01	0.55	0.721	-168.6
0959	21-25	6.82	1.206	—	0.56	29.77	0.54	0.713	-170.7
	Sampled at 1001								
1011	26-30	6.87	1.155	—	0.46	31.07	0.51	0.678	-198.1
1013	26-30	6.86	1.161	—	0.35	31.09	0.51	0.673	-198.9
1015	26-30	6.86	1.141	—	0.31	30.97	0.49	0.654	-199.5
	Sampled at 1016								
1025	31-35	6.87	0.592	—	0.15	30.67	0.25	0.344	-208.8
1027	31-35	6.86	0.581	—	0.14	30.81	0.25	0.336	-209.2
1029	31-35	6.86	0.570	—	0.14	30.87	0.24	0.332	-209.4
	Sampled at 1030								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0105 (I)

Project Number: FR1681

Date: 6/17/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1045	36-40	6.87	0.570	—	0.22	31.74	0.23	0.319	-216.2
1047	36-40	6.87	0.543	—	0.23	31.98	0.23	0.308	-216.4
1049	36-40	6.86	0.529	—	0.22	32.21	0.22	0.300	-216.7
	Sampled at 1050								
1111	41-45	7.15	1.981	—	0.64	30.88	0.92	1.181	-192.4
1113	41-45	7.15	1.938	—	0.43	30.83	0.87	1.122	-194.6
1115	41-45	7.16	1.880	—	0.35	30.74	0.84	1.092	-196.1
	Sampled at 1116								
1130	46-50	7.18	1.644	—	0.16	31.90	0.69	0.899	-228.2
1132	46-50	7.18	1.530	—	0.08	32.25	0.64	0.843	-229.6
1134	46-50	7.19	1.454	—	0.08	32.43	0.62	0.813	-230.2
	Sampled at 1135								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0106 (J)

Project Number: FR1681

Date: 6/17/10

DPT ~~Location~~ GRID	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1315	8-12	6.67	1.034	—	0.63	26.27	0.49	0.653	-56.1
1317	8-12	6.55	1.020	—	0.63	25.95	0.49	0.650	-51.4
1319	8-12	6.48	1.016	—	0.64	25.86	0.49	0.648	-50.3
	Sampled at 1320								
1324	12-16	6.45	1.104	—	0.62	27.22	0.51	0.667	-96.5
1326	12-16	6.56	1.040	—	0.53	26.20	0.50	0.653	-87.9
1328	12-16	6.54	1.013	—	0.51	25.73	0.49	0.646	-82.0
	Sampled at 1329								
1336	16-20	6.49	1.207	—	0.55	29.23	0.54	0.709	-129.8
1338	16-20	6.69	1.071	—	0.30	26.09	0.51	0.675	-101.1
1340	16-20	6.66	1.053	—	0.32	25.81	0.51	0.673	-97.3
	Sampled at 1341								
1402	21-25	6.85	0.925	—	0.26	26.84	0.40	0.530	-124.9
1404	21-25	6.84	0.839	—	0.28	26.35	0.39	0.521	-113.4
1406	21-25	6.81	0.815	—	0.31	26.09	0.39	0.515	-107.6
	Sampled at 1407								
1558									
1600	26-30	7.07	0.761	—	0.58	27.08	0.35	0.466	-141.5
1600	26-30	7.03	0.717	—	0.56	26.51	0.33	0.436	-128.3
1602	26-30	6.99	0.679	—	0.57	26.20	0.31	0.419	-118.0
	Sampled at 1603								
1612	31-35	6.80	0.539	—	0.75	30.54	0.25	0.356	-158.4
1614	31-35	6.84	0.612	—	0.27	28.98	0.26	0.358	-163.8
1616	31-35	6.88	0.585	—	0.26	27.64	0.26	0.349	-164.8
	Sampled at 1617								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0106 (J)

Date: 6/17/10

Time

~~DPT~~ ~~Location~~ GRD	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1643	36-40	7.13	0.576	—	0.17	31.33	0.26	0.351	-207.0
1645	36-40	7.29	0.505	—	0.11	29.98	0.26	0.354	-220.9
1647	36-40	7.28	0.595	—	0.12	29.85	0.26	0.355	-217.6
	Sampled at 1648								
1700	41-45	7.32	0.586	—	0.60	28.61	0.26	0.359	-279.1
1702	41-45	7.32	0.594	—	0.31	28.50	0.27	0.365	-292.1
1704	41-45	7.31	0.603	—	0.28	28.28	0.28	0.389	-296.8
	Sampled at 1705								
1720	46-50	7.32	0.640	—	0.36	30.01	0.28	0.379	-257.4
1722	46-50	7.32	0.639	—	0.18	29.96	0.28	0.380	-257.3
1724	46-56	7.32	0.639	—	0.17	29.76	0.28	0.381	-257.2
	Sampled at 1725								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0107 (K) Time

Project Number: FR1681

Date: 6/18/10

~~DPT~~ JRD Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0847	8-12	6.61	0.686	—	1.12	25.25	0.33	0.439	-21.4
0849	8-12	6.60	0.669	—	1.03	24.95	0.32	0.431	-35.6
0851	8-12	6.60	0.657	—	0.98	24.83	0.32	0.426	-47.2
	Sampled at 0852								
0859	16-20	6.67	0.923	—	0.61	25.81	0.44	0.585	-115.7
0901	16-20	6.76	0.901	—	0.54	25.20	0.43	0.573	-114.7
0903	16-20	6.78	0.869	—	0.54	24.57	0.42	0.562	-107.6
	Sampled at 0904								
0914	26-30	6.91	1.169	—	0.97	28.35	0.54	0.717	-131.7
0916	26-30	6.90	1.161	—	0.50	27.16	0.55	0.721	-128.8
0918	26-30	6.88	1.148	—	0.55	26.71	0.42	0.720	-122.8
	Sampled at 0919								
0929	31-35	7.02	1.265	—	0.42	26.82	0.60	0.794	-137.1
0931	31-35	6.97	1.260	—	0.38	26.52	0.61	0.794	-128.1
0933	31-35	6.92	1.244	—	0.37	26.12	0.60	0.789	-116.3
	Sampled at 0934								
1002	36-40	6.88	1.527	—	0.39	32.09	0.71	0.945	-165.5
1004	36-40	7.01	1.732	—	0.31	31.54	0.77	1.016	-178.1
1006	36-40	7.04	1.776	—	0.31	31.05	0.80	1.049	-183.8
	Sampled at 1007								
1017	41-45	7.16	1.760	—	0.17	31.07	0.82	1.097	-216.5
1019	41-45	7.18	2.006	—	0.17	29.19	0.97	1.263	-207.1
1021	41-45	7.15	2.133	—	0.20	27.93	1.03	1.333	-192.3
	Sampled at 1022								
1036	46-50	6.96	2.356	—	1.06	27.68	1.04	1.326	-108.1
1038	46-50	6.92	2.107	—	0.38	26.81	1.02	1.310	-107.3
1040	46-50	6.90	2.060	—	0.32	26.37	1.02	1.304	-105.2
	Sampled at 1041								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0108 (L)

Project Number: FR1681

Date: 6/18/10

~~DPT~~ FRO Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1128	8-12	7.07	0.807	—	1.41	26.70	0.37	0.493	-49.6
1130	8-12	6.88	0.762	—	1.05	26.04	0.36	0.480	-45.9
1132	8-12	6.78	0.744	—	0.90	25.70	0.35	0.474	-42.9
	Sampled at	1133							
1139	16-20	6.43	0.997	—	1.00	30.20	0.47	0.626	-110.9
1141	16-20	6.61	1.065	—	0.76	29.70	0.48	0.636	-117.7
1143	16-20	6.78	1.034	—	0.68	27.59	0.48	0.638	-110.5
	Sampled at	1144							
1151	26-30	6.85	1.016	—	0.68	31.97	0.42	0.569	-169.4
1153	26-30	7.14	0.979	—	0.32	29.48	0.44	0.599	-171.7
1155	26-30	7.23	0.973	—	0.25	27.11	0.46	0.604	-158.3
	Sampled at	1156							
1205	31-35	7.22	0.984	—	0.19	28.32	0.45	0.602	-173.9
1207	31-35	7.22	0.985	—	0.20	28.36	0.45	0.602	-174.3
1209	31-35	7.23	0.989	—	0.18	28.50	0.45	0.603	-175.0
	Sampled at	1210							
1222	36-40	7.05	1.220	—	0.31	28.40	0.58	0.773	-161.2
1224	36-40	6.99	1.263	—	0.30	27.46	0.59	0.775	-145.0
1226	36-40	6.93	1.242	—	0.31	27.01	0.59	0.767	-136.3
	Sampled at	1227							
1239	41-45	6.89	1.432	—	0.15	31.84	0.63	0.849	-180.4
1241	41-45	6.99	1.430	—	0.14	29.50	0.68	0.864	-158.9
1243	41-45	6.97	1.422	—	0.16	27.75	0.70	0.911	-145.1
	Sampled at	1244							
1329	46-50	7.22	1.252	—	0.58	32.03	0.54	0.728	-220.5
1331	46-50	7.21	1.265	—	0.55	31.04	0.73	0.735	-224.6
1333	46-50	7.20	1.252	—	0.56	30.36	0.56	0.737	-225.4
	Sampled at	1334							
1349	56-60	7.25	1.294	—	0.50	30.77	0.63	0.858	-237.6
1351	56-60	7.30	1.557	—	0.25	31.02	0.70	0.914	-239.3
1353	56-60	7.31	1.570	—	0.23	31.01	0.70	0.931	-240.0
	Sampled at	1354							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0109 (M)

Project Number: FR1681

Date: 6.21.10

~~DPT~~ Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0714	8-12	6.49	0.579	—	1.55	23.76	0.28	0.382	-100.1
0716	8-12	6.51	0.571	—	1.98	23.75	0.28	0.377	-100.2
0717	8-12	6.52	0.564	—	2.37	23.85	0.28	0.374	-99.8
	Sampled at 0718								
0728	16-20	6.66	0.714	—	0.59	24.48	0.37	0.498	-120.7
0730	16-20	6.76	0.763	—	0.35	24.28	0.38	0.500	-122.6
0732	16-20	6.81	0.753	—	0.37	24.16	0.37	0.494	-120.5
	Sampled at 0733								
0742	26-30	7.09	0.630	—	0.30	24.89	0.29	0.393	-145.8
0744	26-30	7.10	0.597	—	0.29	25.01	0.28	0.377	-147.7
0746	26-30	7.10	0.562	—	0.27	25.06	0.26	0.354	-149.0
	Sampled at 0747								
0757	31-35	7.09	0.447	—	0.74	25.14	0.21	0.276	-170.9
0759	31-35	7.17	0.417	—	0.71	25.20	0.19	0.263	-171.2
0801	31-35	7.17	0.400	—	0.67	25.22	0.19	0.255	-171.6
	Sampled at 0802								
0818	36-40	7.22	0.298	—	0.13	25.84	0.13	0.182	-188.7
0820	36-40	7.22	0.280	—	0.15	25.85	0.13	0.177	-188.9
0822	36-40	7.22	0.275	—	0.19	25.76	0.13	0.174	-189.3
	Sampled at 0823								
0839	41-45	7.24	0.246	—	0.35	26.79	0.11	0.154	-200.1
0841	41-45	7.24	0.246	—	0.11	26.85	0.11	0.154	-200.5
0843	41-45	7.24	0.245	—	0.11	26.80	0.11	0.154	-209.7
	Sampled at 0844								
0900	46-50	7.26	0.240	—	0.20	27.41	0.11	0.149	-211.2
0902	46-50	7.26	0.149	—	0.10	27.47	0.11	0.148	-211.3
0904	46-50	7.26	0.148	—	0.08	27.30	0.11	0.148	-211.3
	Sampled at 0905								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0110 (N)

Project Number: FR1681

Date: 6/21/10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1009	31-35	7.33	0.719	—	0.80	29.38	0.32	0.429	-143.0
1011	31-35	7.26	0.709	—	0.30	29.03	0.32	0.424	-137.5
1013	31-35	7.21	0.688	—	0.24	28.81	0.30	0.407	-130.1
	Sampled at 1014								
1025	36-40	7.22	0.571	—	0.38	30.14	0.22	0.304	-194.4
1027	36-40	7.29	0.576	—	0.20	30.39	0.25	0.348	-185.8
1029	36-40	7.30	0.591	—	0.19	30.06	0.26	0.349	-182.1
	Sampled at 1030								
1045	41-45	7.30	0.559	—	0.87	31.17	0.23	0.311	-224.0
1047	41-45	7.31	0.632	—	0.70	30.96	0.29	0.398	-206.7
1049	41-45	7.33	0.687	—	0.42	30.62	0.30	0.401	-201.4
	Sampled at 1050								
1102	46-50	7.31	0.671	—	0.50	31.44	0.29	0.390	-221.0
1104	46-50	7.34	0.674	—	0.29	31.50	0.29	0.388	-222.7
1106	46-50	7.34	0.665	—	0.23	31.50	0.28	0.380	-223.9
	Sampled at 1107								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Trans DPT0111 (0)

Date: 6/21/10

~~DPT~~ JRO Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
							0.34		
1145	8-12	6.92	0.725	—	0.38	26.65	~~0.485~~	0.455	-71.2
1147	8-12	6.89	0.716	—	0.37	26.41	0.34	0.451	-68.0
1149	8-12	6.81	0.711	—	0.33	26.29	0.34	0.450	-67.0
	Sampled at 1150								
1155	16-20	6.66	1.251	—	0.84	30.61	0.55	0.732	-127.5
1157	16-20	6.83	1.207	—	0.56	28.07	0.55	0.729	-127.5
1159	16-20	6.91	1.153	—	0.53	26.84	0.52	0.700	-117.4
	Sampled at 1200								
1208	26-30	7.14	1.307	—	0.39	30.17	0.59	0.778	-163.8
1210	26-30	7.14	1.301	—	0.31	28.29	0.59	0.779	-155.8
1212	26-30	7.15	1.253	—	0.32	27.60	0.58	0.761	-147.4
	Sampled at 1213								
1222	31-35	7.19	1.464	—	0.25	30.69	0.67	0.883	-175.4
1224	31-35	7.20	1.450	—	0.25	28.80	0.66	0.868	-179.0
1226	31-35	7.20	1.424	—	0.27	28.47	0.66	0.861	-181.5
	Sampled at 1227								
1316	36-40	7.19	1.070	—	0.40	34.38	0.53	0.779	-222.2
1318	36-40	7.22	1.458	—	0.47	30.57	0.66	0.865	-222.1
1320	36-40	7.22	1.507	—	0.48	29.99	0.68	0.891	-223.7
	Sampled at 1321								
1346	41-45	7.32	1.197	—	0.18	32.21	0.53	0.714	-256.4
1348	41-45	7.32	1.333	—	0.17	31.98	0.61	0.819	-256.6
1350	41-45	7.32	1.475	—	0.18	31.38	0.67	0.882	-256.7
	Sampled at 1357								
1411	46-50	7.33	1.518	—	0.23	30.66	0.67	0.885	-259.3
1413	46-50	7.35	1.510	—	0.22	30.70	0.64	0.824	-259.5
1415	46-50	7.36	1.329	—	0.19	30.81	0.57	0.754	-259.6
	Sampled at 1416								
1443	56-60	7.39	2.227	—	0.14	30.63	1.07	1.395	-269.1
1445	56-60	7.39	2.531	—	0.14	30.11	1.18	1.520	-269.3
1447	56-60	7.40	2.594	—	0.14	29.66	1.13	1.435	-269.7
	Sampled at 1448								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0112 (P)

Date: 6/21/10

~~DPT~~ Time Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1542	8-12	6.95	0.955	—	0.38	27.02	0.45	0.593	-59.8
1544	8-12	6.84	0.925	—	0.44	26.35	0.44	0.585	-57.3
1546	8-12	6.80	0.917	—	0.43	26.14	0.44	0.582	-56.1
	Sampled at 1547								
1551	16-20	6.71	1.090	—	0.50	29.51	0.48	0.643	-125.9
1553	16-20	6.79	1.034	—	0.45	28.47	0.47	0.621	-134.5
1555	16-20	6.82	1.006	—	0.43	27.87	0.46	0.612	-137.8
	Sampled at 1556								
1605	26-30	6.97	0.991	—	0.09	28.40	0.45	0.596	-177.5
1607	26-30	6.99	0.947	—	0.08	28.45	0.43	0.575	-180.3
1609	26-30	7.00	0.938	—	0.09	28.33	0.43	0.571	-181.1
	Sampled at 1610								
~~1703~~	31-35	No readings		—					
~~1705~~	31-35	Taken due		—					
~~1707~~	31-35	to low recovery		—					
	Sampled at 1627								
1651	36-40	7.15	0.576	—	0.16	32.06	0.24	0.328	-227.6
1653	36-40	7.14	0.567	—	0.15	31.37	0.24	0.327	-227.6
1655	36-40	7.15	0.558	—	0.13	30.65	0.24	0.326	-227.3
	Sampled at 1656								
1710	41-45	7.15	0.524	—	0.06	29.69	0.23	0.313	-231.6
1712	41-45	7.15	0.524	—	0.04	29.67	0.23	0.312	-232.1
1714	41-45	7.15	0.521	—	0.04	29.44	0.23	0.312	-232.3
	Sampled at 1715								
1726	46-50	7.20	0.922	—	0.07	29.69	0.40	0.529	-244.3
1728	46-50	7.22	0.870	—	0.03	29.86	0.38	0.503	-245.2
1730	46-50	7.22	0.832	—	0.03	29.97	0.36	0.481	-245.6
	Sampled at 1731								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0113 (Q)

Date: 6/22/10

Time

~~DPT~~ Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
0808	8-12	7.32	0.566	—	1.29	25.90	0.26	0.348	-68.6
0810	8-12	7.20	0.537	—	0.87	25.42	0.25	0.343	-73.9
0812	8-12	7.16	0.528	—	0.75	25.15	0.25	0.341	-76.5
	Sampled at 0813								
0818	16-20	6.93	0.687	—	0.52	26.33	0.33	0.439	-135.8
0820	16-20	7.10	0.617	—	0.34	24.61	0.30	0.397	-133.9
0822	16-20	7.10	0.597	—	0.31	24.37	0.29	0.391	-129.5
	Sampled at 0823								
0829	26-30	7.19	0.728	—	0.16	28.07	0.34	0.459	-191.0
0831	26-30	7.32	0.796	—	0.12	28.14	0.37	0.493	-206.8
0833	26-30	7.34	0.812	—	0.11	28.36	0.37	0.500	-210.1
	Sampled at 0834								
0845	31-35	7.57	0.906	—	0.09	28.21	0.42	0.561	-245.5
0847	31-35	7.57	0.914	—	0.10	27.47	0.43	0.567	-245.4
0849	31-35	7.56	0.906	—	0.12	26.96	0.43	0.566	-244.8
	Sampled at 0850								
0919	36-40	7.63	0.656	—	0.10	29.93	0.28	0.371	-267.2
0921	36-40	7.63	0.603	—	0.10	29.76	0.26	0.353	-267.3
0923	36-40	7.63	0.583	—	0.11	29.57	0.25	0.345	-267.3
	Sampled at 0924								
0940	41-45	7.63	0.494	—	0.06	29.90	0.21	0.289	-269.0
0942	41-45	7.62	0.473	—	0.07	29.56	0.20	0.280	-268.8
0944	41-45	7.62	0.453	—	0.08	29.10	0.20	0.272	-268.9
	Sampled at 0945								
1001	46-50	7.63	0.425	—	0.22	29.54	0.18	0.249	-274.1
1003	46-50	7.63	0.413	—	0.07	29.55	0.18	0.245	-274.1
1005	46-50	7.63	0.408	—	0.07	29.44	0.18	0.244	-274.1
	Sampled at 1006								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Time DPT0114 (R)

Date: 6/22/10

DPT Location JRR	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1050	8-12	7.02	0.811	—	0.42	25.91	0.38	0.513	-64.2
1052	8-12	6.97	0.796	—	0.38	25.65	0.38	0.508	-62.1
1054	8-12	6.89	0.781	—	0.34	25.39	0.38	0.503	-59.6
	Sampled at 1055								
1100	16-20	6.67	0.943	—	0.50	27.17	0.44	0.589	-112.5
1102	16-20	6.79	0.927	—	0.42	26.12	0.44	0.583	-113.7
1104	16-20	6.84	0.902	—	0.39	25.54	0.44	0.577	-109.0
	Sampled at 1105								
1112	26-30	6.87	1.193	—	0.27	29.16	0.58	0.786	-156.9
1114	26-30	6.84	1.289	—	0.19	26.83	0.62	0.810	-127.5
1116	26-30	6.80	1.272	—	0.20	26.43	0.61	0.795	-116.1
	Sampled at 1117								
1127	31-35	7.01	1.449	—	0.31	30.17	0.69	0.921	-174.2
1129	31-35	6.95	1.577	—	0.16	28.00	0.76	1.004	-167.7
1131	31-35	6.95	1.633	—	0.16	27.22	0.77	1.011	-168.7
	Sampled at 1132								
1200	36-40	7.11	1.577	—	0.51	30.33	0.71	0.945	-218.8
1202	36-40	7.22	1.595	—	0.38	28.56	0.77	1.001	-217.0
1204	36-40	7.27	1.642	—	0.36	27.79	0.79	1.025	-211.4
	Sampled at 1205								
1215	41-45	7.32	1.405	—	0.20	29.86	0.69	0.916	-219.2
1217	41-45	7.36	1.564	—	0.32	28.02	0.75	0.975	-208.0
1219	41-45	7.37	1.578	—	0.28	27.24	0.76	0.987	-198.0
	Sampled at 1220								
1332	46-50	7.20	1.042	—	0.23	35.84	0.41	0.547	-145.7
1334	46-50	7.21	0.940	—	0.18	34.93	0.38	0.507	-157.6
1336	46-50	7.22	0.900	—	0.15	34.33	0.36	0.491	-162.8
	Sampled at 1337								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0115(S)

Project Number: FR1681

Date: 6/22/10

~~DPT~~ TRD ~~Location~~	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1420	8-12	7.74	0.545	—	1.08	29.45	0.23	0.316	-66.0
1422	8-12	7.59	0.510	—	0.50	27.93	0.23	0.310	-71.4
1424	8-12	7.51	0.496	—	0.40	27.22	0.23	0.308	-73.8
	Sampled at	1425							
1431	16-20	6.96	0.674	—	0.50	30.11	0.30	0.406	-124.9
1433	16-20	7.05	0.681	—	0.34	29.80	0.30	0.399	-135.3
1435	16-20	7.09	0.659	—	0.35	29.31	0.29	0.391	-142.2
	Sampled at	1436							
1442	26-30	7.35	0.665	—	0.32	28.69	0.29	0.386	-178.4
1444	26-30	7.36	0.620	—	0.19	29.20	0.27	0.365	-179.6
1446	26-30	7.36	0.600	—	0.18	29.19	0.26	0.358	-180.4
	Sampled at	1447							
1501	31-35	7.46	0.497	—	0.33	30.10	0.21	0.278	-198.7
1503	31-35	7.46	0.449	—	0.23	30.27	0.19	0.257	-199.4
1505	31-35	7.47	0.427	—	0.22	30.16	0.18	0.249	-199.9
	Sampled at	1506							
1529	36-40	7.50	0.385	—	0.51	31.89	0.16	0.219	-217.3
1531	36-40	7.51	0.379	—	0.26	31.91	0.16	0.216	-217.6
1533	36-40	7.51	0.369	—	0.21	31.19	0.15	0.214	-217.9
	Sampled at	1534							
1547	41-45	7.53	0.344	—	0.15	30.49	0.15	0.202	-222.3
1549	41-45	7.53	0.344	—	0.15	30.56	0.15	0.202	-222.4
1551	41-45	7.53	0.342	—	0.07	30.47	0.14	0.201	-222.5
	Sampled at	1552							
1602	46-50	7.50	0.632	—	0.05	30.03	0.27	0.356	-232.1
1604	46-50	7.52	0.560	—	0.05	30.01	0.23	0.312	-232.0
1606	46-50	7.54	0.501	—	0.06	29.88	0.21	0.292	-231.9
	Sampled at	1607							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM DPT0116 **Project Number:** FR1681

DPT Location: NASA - CRHE DPT00 (DW) **Date:** 8.2.10

Time	DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity PPT % (DW)	TDS g/L	ORP mV
0908	DPT0116	012.0	6.53	1.232	-	3.60	27.38	0.60	0.787	-204.8
0910	DPT0116	010.0	6.67	1.186	-	1.79	27.43	0.58	0.767	-227.3
0912	DPT0116	010.0	6.71	1.175	-	1.23	27.44	0.58	0.762	-230.9
0922 (DW) 0932 (SW)	DPT0116	018.0	7.39	0.933	-	0.96	27.29	0.45	0.599	-204.5
0924 0934 (SW)	DPT0116	018.0	7.37	0.889	-	0.23	27.29	0.43	0.572	-196.4
0926 0936	DPT0116	018.0	7.36	0.853	-	0.16	27.17	0.41	0.552	-205.0
0942	DPT0116	028.0	7.36	1.179	-	0.36	29.05	0.62	0.840	-202.0
0944	DPT0116	028.0	7.37	1.381	-	0.17	28.58	0.69	0.901	-212.3
0946	DPT0116	028.0	7.32	1.373	-	0.14	28.68	0.68	0.890	-221.3
0956	033.0	7.44	1.293	-	0.30	29.45	0.64	0.841	-214.1
0958	033.0	7.36	1.296	-	0.13	28.62	0.64	0.841	-217.9
1000	033.0	7.30	1.292	-	0.12	28.23	0.64	0.839	-212.6
1024	038.0	7.40	1.361	-	0.31	29.43	0.68	0.887	-252.0
1026	038.0	7.36	1.379	-	0.11	29.34	0.68	0.897	-245.8
1028	038.0	7.34	1.385	-	0.09	29.17	0.69	0.901	-242.5
1046	043.0	7.42	1.362	-	0.15	30.92	0.69	0.914	-248.5
1048	043.0	7.41	1.538	-	0.11	29.99	0.78	(DW) 1.037	-260.6
1050	043.0	7.32	1.680	-	0.08	29.68	0.85	1.102	-262.8
1109	048.0	7.45	2.142	-	0.14	30.87	1.12	1.443	-262.6
1111	048.0	7.36	2.339	-	0.10	30.63	1.21	1.550	-253.1
1113	048.0	7.32	2.534	-	0.08	30.07	1.30	1.658	-243.8

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0117

Date: 8.2.10

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt%	TDS g/L	ORP mV
1137	010.0	6.84	1.143	-	2.27	31.51	0.56	0.739	-128.4
1139	010.0	6.79	1.121	-	1.38	31.74	0.55	0.725	-131.9
1141	010.0	6.66	1.076	-	0.49	30.53	0.52	0.693	-137.4
1151	018.0	7.31	1.359	-	0.85	30.96	0.67	0.885	-279.3
1153	018.0	7.24	1.378	-	0.23	29.86	0.68	0.894	-252.0
1155	018.0	7.19	1.370	-	0.16	29.53	0.68	0.891	-311.2
1252	028.0	7.22	1.535	-	0.09	34.25	0.76	1.002	-230.8
1254	028.0	7.22	1.545	-	0.07	33.02	0.77	1.003	-226.7
1256	028.0	7.18	1.540	-	0.07	32.75	0.76	0.998	-226.4
1312	033.0	7.11	1.710	-	0.10	30.98	0.85	1.110	-213.5
1314	033.0	7.04	1.706	-	0.08	30.95	0.85	1.109	-204.4
1316	033.0	7.01	1.700	-	0.08	30.99	0.85	1.103	-192.8
1337	038.0	7.34	1.472	-	0.03	32.24	0.73	0.958	-262.4
1339	038.0	7.34	1.475	-	0.03	32.22	0.73	0.960	-263.3
1341	038.0	7.34	1.478	-	0.03	32.19	0.73	0.962	-263.7
1401	043.0	7.42	1.920	-	0.08	31.06	0.99	1.301	-301.2
1403	043.0	7.38	2.152	-	0.08	29.70	1.09	1.401	-286.3
1405	043.0	7.40	2.157	-	0.06	29.36	1.09	1.397	-295.8
1424	048.0	7.45	1.790	-	0.03	33.01	0.91	1.198	-258.7
1426	048.0	7.28	2.074	-	0.03	32.55	1.09	1.413	-243.0
1428	048.0	7.27	2.661	-	0.03	32.29	1.30	1.666	-250.3

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0118

Project Number: FR1681

Date: 8.2.10

DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
1458	010.0	6.59	1.683	-	0.26	29.34	0.84	1.089	-135.7
1500	010.0	6.52	1.656	-	0.15	28.90	0.83	1.075	-142.7
1502	010.0	6.41	1.646	-	0.16	28.62	0.82	1.067	-147.6
1513	018.0	7.11	1.700	-	0.04	30.46	0.85	1.105	-204.1
1515	018.0	7.10	1.701	-	0.05	29.88	0.85	1.105	-196.1
1517	018.0	7.06	1.682	-	0.04	29.21	0.84	1.093	-188.0
1530	028.0	7.18	2.145	-	0.06	33.97	1.10	1.421	-215.9
1532	028.0	7.13	2.302	-	0.06	33.01	1.17	1.581	-218.9
1534	028.0	7.06	2.333	-	0.05	32.15	1.18	1.517	-204.6
1548	033.0	7.18	2.078	-	0.06	30.64	1.08	1.391	-214.2
1550	033.0	6.97	2.203	-	0.06	28.86	1.12	1.433	-193.2
1552	033.0	6.89	2.192	-	0.06	28.75	1.11	1.424	-186.3
1610	038.0	7.22	1.899	-	0.11	30.26	0.96	1.237	-247.9
1612	038.0	7.15	1.905	-	0.08	30.16	0.96	1.240	-247.7
1614	038.0	7.09	1.914	-	0.06	29.68	0.96	1.244	-237.0
1630	043.0	7.34	2.116	-	0.09	31.35	1.10	1.422	-224.2
1632	043.0	7.25	2.291	-	0.05	30.44	1.18	1.508	-222.3
1634	043.0	7.16	2.395	-	0.07	29.87	1.22	1.559	-209.6
1653	048.0	7.38	3.275	-	0.04	30.59	1.75	2.207	-231.6
1655	048.0	7.28	3.622	-	0.04	30.36	1.90	2.371	-221.0
1657	048.0	7.22	3.762	-	0.04	30.15	1.96	2.439	-209.1

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT019

Date: 8.3.10

Time DPT Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
0822	010.0	6.58	1.670	-	0.22	28.13	0.83	1.079	-132.9
0824	010.0	6.60	1.626	-	0.19	28.03	0.81	1.055	-140.6
0826	010.0	6.60	1.608	-	0.21	27.91	0.80	1.044	-146.2
0835	014.0	6.95	1.944	-	0.85	28.15	1.00	1.288	-164.6
0837	014.0	6.98	1.946	-	0.32	27.81	0.98	1.259	-157.7
0839	014.0	6.91	1.897	-	0.23	27.53	0.96	1.230	-150.2
0849	018.0	6.96	2.178	-	0.44	27.66	1.11	1.418	-164.2
0851	018.0	6.92	2.182	-	0.25	27.05	1.11	1.415	-156.3
0853	018.0	6.84	2.135	-	0.21	26.38	1.08	1.384	-145.9
0906	~~018.0~~ 023.0	6.95	2.237	-	0.24	28.14	1.13	1.449	-173.4
0908	023.0	6.90	2.265	-	0.19	28.06	1.15	1.473	-173.9
0910	023.0	6.80	2.242	-	0.16	27.45	1.14	1.454	-156.9
0926	028.0	7.14	1.986	-	0.14	29.08	0.99	1.276	-208.7
0928	028.0	7.14	2.041	-	0.11	29.25	1.03	1.330	-217.2
0930	028.0	7.11	2.046	-	0.11	28.90	1.03	1.328	-214.8
0945	033.0	7.23	2.076	-	0.39	29.74	1.06	1.360	-198.0
0947	033.0	7.13	2.190	-	0.10	29.30	1.12	1.429	-199.1
0949	033.0	7.13	2.215	-	0.08	29.06	1.13	1.441	-186.7
1005	038.0	7.26	2.791	-	0.11	29.74	1.84	1.925	-250.3
1007	038.0	7.27	3.174	-	0.07	29.65	1.70	2.182	-259.9
1009	038.0	7.28	3.550	-	0.06	29.27	1.87	2.331	-241.8
1028	043.0	7.28	2.899	-	~~0.20~~ 0.22	31.00	1.54	1.954	-300.8
1030	043.0	7.29	3.471	-	0.07	30.94	1.86	2.338	-311.8
1032	043.0	7.30	3.967	-	0.06	30.84	2.10	2.604	-321.3
1053	048.0	7.31	4.122	-	0.31	32.09	2.17	2.693	-339.2
1055	048.0	7.31	4.270	-	0.06	31.98	2.25	2.788	-350.0
1057	048.0	7.31	4.519	-	0.04	31.71	2.40	2.953	-356.6

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0120

Date: 3 Aug 2010

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt%	TDS g/L	ORP mV
1245	010.0	6.57	2.198	-	0.05	32.19	1.11	1.413	-129.3
1247	010.0	6.53	2.169	-	0.03	31.96	1.09	1.406	-129.4
1249	010.0	6.38	2.136	-	0.05	30.86	1.08	1.386	-122.8
1258	014.0	6.60	2.374	-	0.40	32.45	1.24	1.629	-143.7
1300	014.0	6.68	2.532	-	0.10	31.99	1.29	1.645	-149.7
1302	014.0	6.68	2.522	-	0.06	31.68	1.28	1.637	-152.9
1312	018.0	6.78	2.505	-	0.18	33.83	1.26	1.617	-164.9
1314	018.0	6.82	2.550	-	0.09	31.79	1.30	1.654	-166.6
1316	018.0	6.75	2.507	-	0.08	30.45	1.28	1.629	-151.3
1328	023.0	6.82	2.504	-	0.42	33.31	1.25	1.633	-140.6
1330	023.0	6.80	2.677	-	0.10	32.85	1.36	1.740	-147.6
1332	023.0	6.78	2.656	-	0.08	31.30	1.35	1.720	-150.6
1349	028.0	6.90	2.320	-	0.20	31.97	1.17	1.501	-181.0
1351	028.0	6.82	2.304	-	0.08	30.80	1.17	1.500	-157.1
1353	028.0	6.81	2.301	-	0.08	30.47	1.17	1.493	-165.1
1409	033.0	7.12	2.121	-	0.22	31.93	1.10	1.116	-178.7
1411	033.0	6.96	2.264	-	0.09	28.86	1.15	1.469	-157.8
1413	033.0	6.88	2.244	-	0.07	29.78	1.14	1.457	-148.1
1430	038.0	7.27	3.090	-	0.09	32.97	1.63	2.057	-242.3
1432	038.0	7.22	3.340	-	0.07	32.65	1.81	2.287	-246.1
1434	038.0	7.14	3.738	-	0.05	32.79	1.95	2.442	-250.6
1454	043.0	7.32	3.277	-	0.11	32.82	1.71	2.165	-226.5
1456	043.0	7.31	3.895	-	0.06	32.29	2.04	2.553	-240.0
1458	043.0	7.18	4.393	-	0.04	31.96	2.34	2.902	-224.7
1515	048.0	7.37	3.523	-	0.01	32.48	1.85	2.316	-265.0
1517	048.0	7.35	3.823	-	0.00	32.20	2.07	2.625	-277.2
1519	048.0	7.27	4.992	-	0.00	30.71	2.68	3.282	-268.6

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT021

Date: 8.3.10 / 8.4.10

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt%	TDS g/L	ORP mV
8.3.10 1600	010P	6.54	1.922	-	0.02	28.47	0.97	1.250	-90.7
1602	010P	6.48	1.927	-	0.04	28.92	0.97	1.253	-86.1
1604	010.0	6.50	1.904	-	0.07	30.88	0.96	1.243	-99.3
1617	018.0	6.84	2.163	-	0.30	31.23	1.11	1.422	-163.1
1619	018.0	6.80	2.133	-	0.09	29.86	1.08	1.379	-153.8
1621	018.0	6.70	2.044	-	0.07	28.98	1.03	1.323	-138.3
1632	018.0	6.96	1.967	-	0.13	29.24	1.00	1.284	-147.3
1634	018.0	6.91	1.989	-	0.10	29.27	1.01	1.296	-136.7
1636	018.0	6.87	2.000	-	0.08	29.35	1.01	1.297	-134.6
1647	023.0	6.90	1.898	-	0.11	30.10	0.95	1.227	-139.0
1649	023.0	6.84	1.843	-	0.08	30.29	0.93	1.198	-127.6
1651	023.0	6.85	1.826	-	0.06	30.23	0.92	1.186	-134.9
8.4.10 0750	028.0	6.78	1.446	-	0.87	26.35	0.72	0.941	-139.8
0752	028.0	6.79	1.432	-	0.61	26.18	0.71	0.929	-138.4
0754	028.0	6.74	1.403	-	0.50	26.25	0.70	0.907	-131.3
0810	033.0	7.13	1.457	-	0.58	27.00	0.73	0.953	-206.4
0812	033.0	7.05	1.512	-	0.50	26.94	0.76	0.986	-193.3
0814	033.0	6.95	1.516	-	0.45	26.95	0.76	0.985	-189.1
0830	038.0	7.16	2.391	-	0.36	27.26	1.28	1.638	-214.6
0832	038.0	6.95	2.700	-	0.33	26.27	1.40	1.759	-180.2
0834	038.0	6.86	2.710	-	0.32	25.80	1.40	1.762	-164.3
0851	043.0	7.26	2.589	-	0.18	28.46	1.35	1.729	-215.6
0853	043.0	7.17	2.868	-	0.15	28.08	1.49	1.889	-198.0
0855	043.0	7.10	3.017	-	0.14	27.58	1.57	1.966	-177.7
0912	048.0	7.16	2.912	-	0.18	28.74	1.49	1.866	-203.2
0914	048.0	7.38	2.327	-	0.09	29.24	1.21	1.549	-239.7
0915	048.0	7.34	2.706	-	0.09	29.18	1.40	1.774	-248.6

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0122

Project Number: FR1681

Date: 8.4.10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 Mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
0957	010.0	6.58	1.269	-	1.11	30.02	0.63	0.823	-97.8
0959	010.0	6.56	1.263	-	0.67	30.08	0.62	0.820	-100.0
1001	010.0	6.54	1.254	-	0.31	30.61	0.62	0.815	-105.0
1011	014.0	6.86	1.326	-	0.41	30.31	0.65	0.858	-138.8
1013	014.0	6.83	1.300	-	0.22	29.40	0.64	0.842	-134.3
1015	014.0	6.79	1.272	-	0.15	29.08	0.63	0.826	-130.9
1024	018.0	6.92	1.392	-	0.13	29.04	0.69	0.903	-138.7
1026	018.0	6.83	1.311	-	0.10	27.62	0.65	0.849	-118.5
1028	018.0	6.78	1.298	-	0.08	28.98	0.64	0.844	-114.9
1040	023.0	6.95	1.508	-	0.28	31.96	0.75	0.983	-176.1
1042	023.0	6.91	1.516	-	0.09	31.87	0.75	0.986	-183.7
1044	023.0	6.89	1.519	-	0.07	31.63	0.75	0.987	-184.0
1057	028.0	6.99	1.451	-	0.08	31.94	0.72	0.951	-228.0
1059	028.0	6.87	1.472	-	0.08	30.56	0.73	0.957	-216.8
1101	028.0	6.81	1.452	-	0.08	29.79	0.72	0.940	-213.4
1115	033.0	7.18	1.443	-	0.17	31.40	0.72	0.944	-200.5
1117	033.0	7.10	1.462	-	0.08	30.55	0.73	0.952	-194.9
1119	033.0	6.95	1.453	-	0.08	29.52	0.72	0.944	-176.2
1136	038.0	7.19	2.048	-	0.06	32.01	1.24 0.96	1.442	-236.3
1138	038.0	7.08	2.408	-	0.06	30.14	1.24	1.594	-220.9
1140	038.0	7.02	2.529	-	0.05	29.66	1.30	1.652	-213.6
1158	043.0	7.18	2.937	-	0.22	31.42	1.54	1.951	-233.6
1200	043.0	7.12	3.090	-	0.08	30.71	1.60	2.051	-224.7
1202	043.0	7.09	3.118	-	0.06	30.51	1.61	2.070	-215.7
1221	048.0	7.30	2.818	-	0.01	32.59	1.49	1.905	-239.2
1223	048.0	7.26	3.205	-	0.01	30.73	1.68	2.120	-233.7
1225	048.0	7.17	3.412	-	0.01	29.40	1.78	2.225	-220.1

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT 0123

Date: 4 Aug 2010 / 5 Aug 2010

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
8.4.10									
1502	010.0	6.84	1.355	-	0.00	32.51	0.67	0.879	-147.3
1504	010.0	6.83	1.349	-	0.04	32.54	0.67	0.877	-152.9
1506	010.0	6.81	1.348	-	0.03	32.55	0.66	0.876	-157.3
1517	014.0	7.13	1.138	-	0.11	29.28	0.55	0.724	-181.1
1519	014.0	6.89	1.085	-	0.06	29.15	0.53	0.705	-153.6
1521	014.0	6.84	1.077	-	0.06	29.01	0.53	0.696	-143.1
1535	018.0	7.47	1.020	-	0.06	32.03	0.50	0.663	-240.4
1537	018.0	7.41	1.013	-	0.04	30.97	0.49	0.657	-239.7
1539	018.0	7.34	1.007	-	0.04	30.72	0.49	0.654	-225.6
1556	023.0	7.43	1.099	-	0.15	32.21	0.54	0.716	-261.4
1558	023.0	7.47	1.087	-	0.08	33.79	0.53	0.704	-261.7
1600	023.0	7.36	1.076	-	0.05	33.65	0.52	0.698	-262.4
1615	028.0	7.19	1.270	-	0.08	30.19	0.62	0.823	-289.6
1617	028.0	7.19	1.268	-	0.04	29.62	0.62	0.822	-299.2
1619	028.0	7.19	1.264	-	0.06	29.76	0.61	0.808	-309.4
1633	033.0	7.23	1.516	-	0.09	30.25	0.76	0.996	-343.0
1635	033.0	7.28	1.568	-	0.07	29.11	0.78	1018	-349.1
1637	033.0	7.27	1.557	-	0.07	27.75	0.78	1.009	-355.9
1651	038.0	7.30	2.485	-	0.08	27.62	1.28	1.625 1.623	-394.9
1653	038.0	7.32	2.497	-	0.09	27.09	1.28	1.622	-411.9
1655	038.0	7.31	2.491	-	0.07	26.86	1.28	1.623	-424.9
8.5.10									
0738	043.0	6.81	2.021	-	1.46	26.44	1.03	1.326	-176.4
0740	043.0	6.84	2.073	-	1.06	25.31	1.06	1.350	-172.6
0742	043.0	6.84	2.083	-	1.06	25.28	1.06	1.357	-169.2
0800	048.0	7.19	1.905	-	0.91	26.05	1.00	1.293	-165.7
0802	048.0	7.13	2.144	-	0.66	26.04	1.10	1.416	-164.2
0804	048.0	7.07	2.260	-	0.54	26.06	1.16	1.474	-134.9

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0124

Date: 8.5.16

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
0901	010.0	6.66	0.627	-	3.47	31.57	~~0.615~~ 0.45	0.615	-101.2
0903	010.0	6.55	0.897	-	1.15	31.25	0.43	0.561	-102.1
0905	010.0	6.53	0.861	-	0.72	31.23	0.43	0.572	-104.0
0927	014.0	6.74	1.106	-	0.42	28.96	0.54	0.717	-120.3
0929	014.0	6.67	1.072	-	0.35	28.57	0.53	0.696	-112.4
0931	014.0	6.82	1.066	-	0.28	29.24	0.52	0.694	-111.7
0940	018.0	6.86	1.199	-	~~0.54~~	29.03	0.59 ~~0.77~~	0.774	-137.3
0942	018.0	6.77	1.166	-	0.31 0.24	28.53	0.57	0.755	-127.5
0944	018.0	6.74	1.146	-	0.20	29.25	0.56	0.746	-125.8
0954	023.0	6.89	1.199	-	0.40	32.56	0.59	0.785	-163.9
0956	023.0	6.88	1.211	-	0.22	32.58	0.59	0.788	-166.0
0958	023.0	6.82	1.204	-	0.15	30.48	0.59	0.780	-150.7
1010	028.0	6.88	1.239	-	0.18	29.03	0.60	0.793	-146.8
1012	028.0	6.81	1.205	-	0.15	28.94	0.59	0.783	-141.3
1014	028.0	6.81	1.204	-	0.13	29.54	0.59	0.783	-134.0
1025	033.0	7.06	1.241	-	0.12	31.40	0.61	0.816	-202.9
1027	033.0	7.03	1.277	-	0.09	30.94	0.63	0.831	-205.8
1029	033.0	6.98	1.272	-	0.08	30.73	0.63	0.827	-176.3
1041	038.0	7.19	1.835	-	0.30	31.54	0.95	1.239	-169.4
1043	038.0	7.10	2.040	-	0.04	30.29	1.04	1.324	~~2164.2~~
1045	038.0	7.03	2.125	-	0.04	29.85	1.08	1.384	-161.1
1058	043.0	7.20	2.073	-	0.06	31.24	1.10	1.427	-201.2
1100	043.0	7.13	2.382	-	0.07	29.72	1.22	1.565	-186.2
1102	043.0	7.07	2.468	-	0.06	28.96	1.26	1.605	-175.5
1116	048.0	7.22	2.285	-	0.02	32.34	1.21	1.551	-197.8
1118	048.0	7.18	2.663	-	0.01	30.64	1.37	1.752	-187.3
1120	048.0	7.11	2.803	-	0.01	30.21	1.44	1.829	-160.9

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0125

Date: 8.5.10

Time DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity PPT%	TDS g/L	ORP mV
1157	010.0	6.42	0.788	-	0.04	32.02	0.37	0.492	-143.4
1159	010.0	6.28	0.717	-	0.01	31.52	0.34	0.462	-157.1
1201	010.0	6.26	0.690	-	0.03	31.17	0.33	0.445	-169.3
1246	018.0	7.02	0.876	-	0.07	30.32	0.43	0.571	-267.4
1248	018.0	7.16	0.870	-	0.06	29.41	0.42	0.565	-245.4
1250	018.0	7.11	0.873	-	0.06	29.60	0.42	0.568	-231.7
1310	028.0	7.28	1.023	-	0.07	30.42	0.49	0.650	-299.2
1312	028.0	7.10	0.991	-	0.06	29.63	0.48	0.643	-280.2
1314	028.0	6.88	0.977	-	0.05	29.70	0.48	0.635	-259.2
1331	033.0	7.11	0.964	-	0.22	32.37	0.47	0.623	-263.9
1333	033.0	7.09	0.975	-	0.09	31.20	0.48	0.625	-269.9
1335	033.0	7.00	0.972	-	0.08	30.76	0.47	0.630	-263.5
1354	038.0	7.02	1.164	-	0.13	28.68	0.57	0.753	-237.3
1356	038.0	6.88	1.135	-	0.08	29.04	0.56	0.737	-207.7
1358	038.0	6.79	1.125	-	0.07	27.75	0.55	0.730	-190.1
1415	043.0	7.01	1.225	-	0.14	32.40	0.64	0.865	-214.0
1417	043.0	7.21	1.747	-	0.7006	31.41	0.91	2.108	-265.0
1419	043.0	7.24	2.033	-	0.06	30.93	1.03	1.336	-289.2
1437	048.0	7.24	2.272	-	0.05	31.69	1.18	1.529	-371.4
1439	048.0	7.24	2.572	-	0.05	30.89	1.30	1.660	-378.3
1441	048.0	7.23	2.669	-	0.05	30.76	1.37	1.735	-393.6

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0126

Date: 8.5.10

Time

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
1534	010.0	6.68	0.856	-	0.00	27.98	0.42	0.555	-79.1
1536	010.0	6.53	0.850	-	0.02	28.59	0.41	0.553	-74.5
1538	010.0	6.48	0.853	-	0.03	28.94	0.42	0.556	-81.2
1547	018.0	6.97	0.976	-	0.76	28.01	0.48	0.640	-183.4
1549	018.0	7.04	0.957	-	0.19	27.01	0.47	0.620	-167.4
1551	018.0	6.88	0.942	-	0.12	26.94	0.46	0.612	-158.0
1603	028.0	6.91	1.957	-	0.08	29.04	0.99	1.284	-180.3
1605	028.0	6.90	2.045	-	0.07	29.10	1.04	1.332	-170.6
1607	028.0	6.92	2.067	-	0.05	29.41	1.05	1.345	-179.2
1620	033.0	7.20	2.117	-	0.23	29.88	1.05	1.386	-176.9
1622	033.0	7.12	2.166	-	0.06	28.85	1.10	1.413	-171.4
1624	033.0	7.05	2.189	-	0.05	28.65	1.11	1.424	-162.7
1639	038.0	7.35	1.842	-	0.01	29.15	0.95	1.238	-239.4
1641	038.0	7.27	1.979	-	0.01	29.09	1.00	1.300	-237.0
1643	038.0	7.16	2.073	-	0.02	29.63	1.05	1.354	-231.9
1707	043.0	7.27	2.010	-	0.03	27.06	1.03	1.333	-178.0
1709	043.0	7.07	2.074	-	0.01	26.17	1.05	1.348	-145.9
1711	043.0	6.87	2.067	-	0.00	26.48	1.05	1.344	-133.6
0728	048.0	6.99	2.025	-	0.62	25.38	1.03	1.319	-191.8
0730	048.0	7.00	2.050	-	8:55	25.35	1.04	1.335	-191.5
0732	048.0	6.99	2.059	-	0.50	25.34	1.05	1.339	-189.1

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0127

Project Number: FR1861

Date: 8.6.10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
0817	033.0	6.99	0.904	-	1.72	27.38	0.44	~~0.575~~	-112.5
0819	033.0	6.94	0.875	-	2.36	26.98	0.43	0.568	-110.5
0821	033.0	6.90	0.852	-	1.29	26.70	0.41	0.552	-109.3
0837	038.0	6.83	1.115	-	1.49	29.13	0.57	0.751	-160.4
0839	038.0	6.85	1.169	-	1.02	28.95	0.68	0.759	-158.5
0841	038.0	6.80	1.160	-	1.01	28.78	0.57	0.752	-152.1
0858	043.0	7.08	1.492	-	0.64	28.93	0.76	1.014	-195.3
0900	043.0	6.99	1.661	-	0.83	28.44	0.84	1.086	-172.3
0902	043.0	6.92	1.681	-	0.84	28.10	0.84	1.090	-159.7
0920	048.0	7.10	1.738	-	0.76	29.79	0.92	1.201	-193.1
0922	048.0	7.21	1981	-	0.63	28.88	1.01	1.294	-193.3
0924	048.0	7.19	2.019	-	0.58	28.92	1.02	1.314	-186.1

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0128

Project Number: FR1689

Date: 6 Aug 2010

DPT Location (Time)	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt%	TDS g/L	ORP mV
1000	033.0	6.90	1.050	-	0.25	28.98	0.51	0.681	-140.0
1002	033.0	6.80	1.034	-	0.24	28.99	0.51	0.670	-138.1
1004	033.0	6.72	1.023	-	0.17	29.09	0.50	0.664	~~-140.8~~ -126.6
1023	038.0	7.11	0.810	-	0.58	28.77	0.39	0.527	-190.6
1025	038.0	7.13	0.786	-	0.36	28.74	0.38	0.511	-184.9
1027	038.0	7.08	0.785	-	0.33	28.47	0.38	0.509	-179.5
1044	043.0	7.21	1.006	-	0.31	30.16	0.50	0.662	-215.5
1046	043.0	7.17	1.045	-	0.28	30.07	0.51	0.676	-209.0
1048	043.0	7.10	0.994	-	0.22	29.07	0.48	0.643	-195.1
1102	048.0	7.01	1.373	-	0.26	30.69	0.83	1.117	-204.2
1104	048.0	7.13	2.072	-	0.20	28.67	1.06	1.367	-198.2
1106	048.0	7.05	2.160	-	0.20	27.60	1.10	1.402	-169.0

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0129

Project Number: FR1681

Date: 6 Aug 2010

Time / DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt-%	TDS g/L	ORP mV
1148	010.0	6.55	0.692	-	2.56	30.70	0.33	0.442	-106.9
1150	010.0	6.44	0.660	-	1.64	30.70	0.32	0.428	-116.7
1152	010.0	6.42	0.650	-	1.56	30.68	0.31	0.420	-121.3
1201	018.0	6.95	1.130	-	1.67	32.20	0.56	0.745	-212.7
1203	018.0	7.03	1.162	-	1.50	31.60	0.57	0.752	-210.7
1205	018.0	7.01	1.163	-	0.95	31.64	0.57	0.756	-204.3
1216	028.0	7.00	1.094	-	1.00	32.68	0.53	0.710	-201.3
1218	028.0	6.96	1.094	-	0.73	32.48	0.53	0.711	-200.3
1220	028.0	6.91	1.090	-	0.64	32.66	0.53	0.708	-192.7
1232	033.0	6.92	1.108	-	0.49	34.34	0.54	0.724	-202.3
1234	033.0	6.82	1.121	-	0.41	31.47	0.55	0.729	-172.9
1236	033.0	6.75	1.091	-	0.42	30.39	0.53	0.705	-160.0
1253	038.0	6.84	1.092	-	0.68	29.78	0.52	0.692	-178.0
1255	038.0	6.83	1.042	-	0.48	29.55	0.51	0.679	-183.9
1257	038.0	6.83	1.037	-	0.44	29.35	0.51	0.925	-189.1
1311	043.0	6.90	1.325	-	0.66	29.27	0.70	0.925	-218.6
1501	048.0	7.06	1.539	-	0.38	30.30	0.69	0.907	-268.8
1503	048.0	7.06	1.589	-	0.32	29.56	0.80	1.069	-270.6
1505	048.0	7.03	1.716	-	0.25	29.49	0.86	1.108	-274.9

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Time DPT 0130

Date: 8.6.10

DPT Location	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
1535	033.0	7.11	1.411	–	4.83	31.97	0.70	0.918	-173.0
1537	033.0	7.02	1.408	–	0.64	31.61	0.70	0.915	-161.0
1539	033.0	6.94	1.396	–	0.26	31.05	0.69	0.906	-154.7
1557	038.0	7.15	1.413	–	0.55	31.85	0.71	0.939	-202.8
1559	038.0	7.07	1.499	–	0.29	29.74	0.74	0.973	-181.4
1601	038.0	6.93	1.500	–	0.22	30.02	0.75	0.975	-169.8
1624	043.0	7.29	1.440	–	0.33	31.06	0.72	0.945	-216.1
1626	043.0	7.28	1.493	–	0.25	31.04	0.75	0.977	-218.9
1628	043.0	7.23	1.541	–	0.16	31.87	0.77	1.004	-217.0
1644	048.0	7.41	1.339	–	0.15	31.68	0.69	0.915	-252.0
1646	048.0	7.38	1.587	–	0.17	29.77	0.80	1.042	-237.4
1648	048.0	7.18	1.622	–	0.16	30.17	0.81	1.054	-224.5

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Time DPT0131 (CR)

Date: 8/9/10

~~DPT~~ TRD Location	Sample Depth ft	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
0830	31-35	7.02	1.725	—	1.95	28.18	0.87	1.123	-199.6
0832	31-35	7.05	1.729	—	1.85	28.12	0.87	1.125	-201.4
0834	31-35	7.06	1.733	—	1.74	27.97	0.87	1.127	-203.2
	Sampled at 0835								
	SW								
0852	36-40	7.20	1.722	—	1.02	28.38	0.87	1.121	-235.8
0854	36-40	7.20	1.733	—	0.94	28.34	0.88	1.142	-230.9
0856	36-40	7.19	1.782	—	0.91	28.27	0.91	1.173	-229.8
	Sampled at 0857								
0911	41-45	7.33	1.672	—	0.61	28.27	0.85	1.102	-266.2
0913	41-45	7.35	1.725	—	0.60	28.12	0.89	1.154	-268.9
0915	41-45	7.34	1.824	—	0.62	27.81	0.94	1.220	-263.6
	Sampled at 0916								
0939	46-50	7.28	1.871	—	0.51	29.10	0.89	1.142	-303.0
0941	46-50	7.37	1.756	—	0.47	28.98	0.90	1.168	-299.7
0943	46-50	7.39	1.873	—	0.46	28.78	1.00	1.297	-301.1
	Sampled at 0944								
1625	61-65	7.37	3.106	—	0.54	29.13	1.63	2.052	-230.6
1627	61-65	7.36	3.184	—	0.55	28.76	1.66	2.093	-232.3
1629	61-65	7.36	3.240	—	0.44	28.48	1.69	2.119	-232.4
	Sampled at 1630								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0132 (0)

Project Number: FR1681

Date: 8/9/10

Time DPT Location	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity ppt %/RS	TDS g/L	ORP mV
1016	8-12	6.69	0.737	—	1.40	31.19	0.35	0.473	-91.3
1018	8-12	6.62	0.722	—	0.81	31.22	0.35	0.467	-90.8
1020	8-12	6.59	0.716	—	0.69	31.21	0.34	0.464	-90.3
	Sampled at 1021								
1025	16-20	6.82	0.832	—	0.66	30.46	0.41	0.544	-195.2
1027	16-20	7.01	0.838	—	0.60	30.44	0.41	0.545	-200.8
1029	16-20	7.06	0.839	—	0.56	30.47	0.41	0.546	-202.4
	Sampled at 1030								
1037	26-30	7.31	0.752	—	0.43	30.72	0.34	0.461	-254.4
1039	26-30	7.40	0.695	—	0.33	30.28	0.33	0.457	-252.9
1041	26-30	7.38	0.693	—	0.42	30.34	0.33	0.457	-253.3
	Sampled at 1042								
1053	31-35	7.43	0.692	—	0.36	31.58	0.34	0.457	-288.9
1055	31-35	7.40	0.709	—	0.37	31.44	0.34	0.464	-290.2
1057	31-35	7.41	0.714	—	0.36	31.41	0.34	0.467	-277.4
	Sampled at 1058								
1110	36-40	7.37	0.718	—	0.35	31.50	0.35	0.480	-288.7
1112	36-40	7.36	0.747	—	0.40	31.10	0.36	0.492	-287.4
1114	36-40	7.33	0.763	—	0.42	30.89	0.37	0.498	-286.3
	Sampled at 1115								
1130	41-45	7.25	0.367	—	0.45	31.91	0.73	0.964	-295.1
1132	41-45	7.23	1.558	—	0.41	31.76	0.80	1.052	-290.5
1134	41-45	7.20	1.660	—	0.39	31.62	0.85	1.118	-288.2
	Sampled at 1135								
1145	46-50	7.20	1.745	—	0.23	31.77	0.85	1.120	-313.6
1147	46-50	7.31	1.835	—	0.24	31.69	0.98	1.246	-305.6
1149	46-50	7.24	1.988	—	0.24	31.56	1.01	1.312	-299.8
	Sampled at 1150								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0133 (U)

Date: 8/9/10

~~DPT~~ Time Location	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity ppt %(w)	TDS g/L	ORP mV
1345	8-12	6.70	0.943	—	0.81	31.23	0.46	0.608	-121.4
1347	8-12	6.61	0.931	—	0.36	30.95	0.45	0.602	-120.8
1349	8-12	6.57	0.922	—	0.27	30.93	0.45	0.595	-119.5
	Sampled at 1350								
1356	12-16	6.45	1.012	—	0.39	31.18	0.52	0.694	-140.5
1358	12-16	6.63	1.079	—	0.32	30.72	0.53	0.707	-140.2
1400	12-16	6.65	1.090	—	0.30	30.30	0.53	0.708	-137.0
	Sampled at 1401								
1405	16-20	6.75	1.177	—	0.44	31.09	0.58	0.768	-151.9
1407	16-20	6.75	1.182	—	0.39	30.78	0.58	0.766	-153.2
1409	16-20	6.75	1.177	—	0.38	30.55	0.58	0.764	-151.7
	Sampled at 1410								
1417	21-25	6.80	1.217	—	0.39	31.65	0.60	0.791	-174.1
1419	21-25	6.79	1.221	—	0.38	31.30	0.60	0.795	-174.0
1421	21-25	6.78	1.224	—	0.36	31.32	0.60	0.797	-169.9
	Sampled at 1422								
1430	26-30	6.93	1.129	—	0.39	31.98	0.54	0.715	-205.1
1432	26-30	6.93	1.107	—	0.37	31.88	0.54	0.720	-204.0
1434	26-36	6.92	1.111	—	0.36	31.45	0.54	0.721	-195.5
	Sampled at 1435								
1444	31-35	6.97	1.182	—	0.26	31.49	0.58	0.775	-218.4
1446	31-35	6.97	1.198	—	0.25	31.49	0.59	0.784	-219.3
1448	31-35	6.96	1.214	—	0.25	31.42	0.60	0.793	-211.2
	Sampled at 1449								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0133 (U) CONT.

Project Number: FR1681

Date: 8/9/10

DPT Location (Time)	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
1502	36-40	6.96	1.711	—	0.26	31.25	0.95	1.241	-243.8
1504	36-40	7.00	1.935	—	0.29	30.96	0.98	1.272	-244.7
1506	36-40	6.99	1.969	—	0.28	30.92	1.00	1.289	-245.6
	Sampled at 1507								
1521	41-45	7.15	1.776	—	0.19	32.88	0.91	1.192	-280.5
1523	41-45	7.11	1.872	—	0.18	33.02	0.97	1.265	-268.8
1525	41-45	7.08	1.994	—	0.19	33.04	1.05	1.367	-267.2
	Sampled at 1526								
1538	46-50	7.22	1.905	—	0.19	31.55	1.01	1.327	-303.8
1540	46-50	7.25	2.143	—	0.16	30.94	1.14	1.487	-305.9
1542	46-50	7.24	2.377	—	0.17	29.59	1.23	1.590	-299.2
	Sampled at 1543								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0134 (V)

Project Number: FR1681

Date: 8/9/10 & 8/10/10

~~DPT~~ Time Location	Sample Depth ft	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %RP	TDS g/L	ORP mV
8/9/10									
1648	8-12	6.59	0.842	—	1.03	33.02	0.40	0.544	-120.4
1650	8-12	6.55	0.834	—	0.68	32.96	0.40	0.541	-118.6
1652	8-12	6.52	0.831	—	0.64	32.92	0.40	0.539	-117.5
	Sampled at		1653						
1656	12-16	6.61	0.994	—	0.33	31.85	0.50	0.674	-165.2
1658	12-16	6.69	1.043	—	0.30	31.65	0.51	0.679	-164.0
1700	12-16	6.70	1.042	—	0.30	31.44	0.51	0.674	-157.9
	Sampled at		1701						
1705	16-20	6.75	1.071	—	0.29	32.02	0.53	0.709	-187.7
1707	16-20	6.82	1.094	—	0.28	31.39	0.54	0.712	-190.7
1709	16-20	6.83	1.097	—	0.25	31.27	0.54	0.714	-190.0
	Sampled at		1710						
1717	21-25	6.84	1.086	—	0.24	32.12	0.52	0.686	-227.3
1719	21-25	6.88	1.047	—	0.25	31.03	0.51	0.679	-217.0
1721	21-25	6.84	1.044	—	0.28	30.56	0.51	0.681	-213.2
	Sampled at		1722						
8/10/10									
0738	26-30	6.80	1.039	—	2.02	27.22	0.51	0.675	-134.6
0740	26-30	6.77	1.040	—	1.81	27.08	0.51	0.676	-135.3
0742	26-30	6.76	1.038	—	1.67	26.98	0.51	0.673	-141.3
	Sampled at		0743						
0752	31-35	6.87	1.032	—	0.76	27.46	0.52	0.699	-187.0
0754	31-35	6.96	1.098	—	0.69	27.61	0.54	0.720	-189.8
0756	31-35	6.98	1.111	—	0.68	27.61	0.55	0.724	-192.3
	Sampled at		0757						

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0134 (V)

Project Number: FR1681

Date: 8/10/10

~~DPT~~ Time Location	Sample Depth ft	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %Rd	TDS g/L	ORP mV
0808	36-40	7.04	1.655	—	0.44	27.93	0.84	1.093	-221.6
0810	36-40	7.00	1.696	—	0.44	27.92	0.86	1.110	-219.0
0812	36-40	6.99	1.723	—	0.45	27.91	0.87	1.130	-219.4
	Sampled at		0813						
0826	41-45	7.16	1.625	—	0.37	28.30	0.84	1.111	-259.1
0828	41-45	7.18	1.776	—	0.36	28.28	0.91	1.184	-257.1
0830	41-45	7.17	1.851	—	0.35	28.22	0.96	1.247	-252.5
	Sampled at		0831						
0845	46-50	7.22	1.792	—	0.22	28.52	0.90	1.183	-303.3
0847	46-50	7.28	1.893	—	0.21	28.41	0.99	1.297	-297.5
0849	46-50	7.26	2.053	—	0.19	28.39	1.06	1.361	-296.4
	Sampled at		0850						

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT0135 (X)

Project Number: ER1681

Date: 8/10/10

~~DPT~~ Location	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
0933	8-12	6.71	0.781	—	1.18	29.87	0.38	0.509	-88.4
0935	8-12	6.59	0.776	—	0.49	29.98	0.37	0.492	-90.4
0937	8-12	6.55	0.748	—	0.34	29.98	0.38	0.480	-92.5
	Sampled at 0938								
0946	16-20	6.65	1.157	—	0.17	29.47	0.58	0.763	-175.3
0948	16-20	6.70	1.183	—	0.17	29.38	0.58	0.771	-173.3
0950	16-20	6.70	1.189	—	0.17	29.36	0.59	0.774	-171.5
	Sampled at 0951								
0955	26-30	6.96	1.186	—	0.17	29.39	0.59	0.773	-206.3
0957	26-30	6.95	1.194	—	0.18	28.80	0.59	0.778	-197.1
0959	26-30	6.87	1.197	—	0.19	28.71	0.59	0.778	-193.3
	Sampled at 1000			—					
1008	31-35	7.03	1.170	—	0.18	28.62	0.58	0.768	-224.2
1010	31-35	7.01	1.190	—	0.18	28.50	0.59	0.779	-217.1
1012	31-35	6.97	1.203	—	0.17	28.44	0.60	0.786	-213.5
	Sampled at 1013								
1034	36-40	7.03	1.335	—	0.15	28.80	0.66	0.872	-254.5
1036	36-40	7.02	1.346	—	0.16	28.77	0.67	0.878	-250.7
1038	36-40	7.01	1.355	—	0.15	28.74	0.67	0.884	-249.8
	Sampled at 1039								
1047	41-45	7.04	1.229	—	0.13	29.59	0.57	0.750	-282.5
1049	41-45	7.29	1.298	—	0.16	29.31	0.65	0.856	-286.0
1051	41-45	7.29	1.345	—	0.17	29.17	0.68	0.897	-279.4
	Sampled at 1052								
1107	46-50	7.38	1.162	—	0.11	29.14	0.59	0.791	-336.4
1109	46-50	7.40	1.271	—	0.11	28.90	0.64	0.849	-335.7
1111	46-50	7.40	1.325	—	0.11	28.98	0.68	0.873	-335.7
	Sampled at 1112								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: Time DPT0136 (On west side of Contractors Rd)

Date: 8/10/10

~~DPT~~ JRD Location	Sample Depth ft	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %/00	TDS g/L	ORP mV
1141	31-35'	7.09	1.091	—	1.67	29.50	0.53	0.702	-155.6
1143	31-35'	6.97	1.075	—	0.54	29.22	0.52	0.695	-149.1
1145	31-35'	6.91	1.065	—	0.39	29.08	0.52	0.689	-144.7
	Sampled at	1146							
1155	36-40'	6.87	1.139	—	0.25	29.61	0.58	0.769	-186.0
1157	36-40	6.86	1.198	—	0.22	29.66	0.59	0.784	-185.9
1159	36-40	6.84	1.213	—	0.21	29.68	0.60	0.792	-183.7
	Sampled at	1200							
1305	41-45'	6.76	1.195	—	0.40	30.62	0.59	0.776	-135.3
1307	41-45	6.70	1.911	—	0.38	30.31	0.58	0.772	-127.7
1309	41-45	6.66	1.185	—	0.38	30.02	0.58	0.768	-122.0
	Sampled at	1310							
1325	46-50'	6.82	1.553	—	0.28	30.45	0.84	1.111	-191.7
1327	46-50	6.98	1.767	—	0.21	29.74	0.91	1.176	-191.3
1329	46-50	7.01	1.835	—	0.18	29.67	0.93	1.205	-190.2
	Sampled at	1330							
1351	61-65'	7.03	2.553	—	0.12	31.39	1.50	1.922	-223.0
1353	61-65'	7.15	3.021	—	0.11	31.24	1.58	2.014	-224.8
1355	61-65'	7.17	3.142	—	0.12	31.17	1.63	2.059	-230.0
	Sampled at	1356							

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0137 (S)

Project Number: FR1681

Date: 8/10/10

~~DPT~~ Location	Sample Depth ft	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %/00	TDS g/L	ORP mV
Time									
1451	31-35	7.22	1.200	—	0.74	30.32	0.59	0.775	-203.3
1453	31-35	7.15	1.188	—	0.28	30.09	0.58	0.772	-195.7
1455	31-35	7.09	1.186	—	0.22	30.02	0.58	0.770	-192.1
	Sampled at		1456						
1511	36-40	7.14	1.273	—	0.15	31.62	0.68	0.904	-221.5
1513	36-40	7.20	1.504	—	0.14	31.41	0.77	1.013	-224.4
1515	36-40	7.21	1.584	—	0.13	31.11	0.80	1.040	-225.9
	Sampled at		1516						
1554	41-45	7.31	1.854	—	0.12	30.60	0.98	1.280	-259.8
1556	41-45	7.25	1.985	—	0.12	29.26	1.04	1.339	-245.9
1558	41-45	7.19	2.071	—	0.10	28.78	1.05	1.352	-236.3
	Sampled at		1559						
1610	46-50	7.24	1.978	—	0.13	28.77	1.02	1.313	-234.0
1612	46-50	7.22	2.058	—	0.12	28.72	1.05	1.359	-233.7
1614	46-50	7.21	2.114	—	0.12	28.66	1.08	1.389	-232.8
	Sampled at		1615						

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM Project Number: FR1681

DPT Location: DPT0138 (westernmost? near RR tracks) Date: 8/11/10

Time

DPT Location	Sample Depth ft	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity ppt %sat	TDS g/L	ORP mV
0756	8-12	6.97	0.775	—	2.60	28.04	0.37	0.496	-150.0
0758	8-12	7.03	0.742	—	2.22	27.89	0.36	0.479	-148.9
0800	8-12	7.04	0.733	—	1.99	27.79	0.35	0.474	-147.5
	Sampled at	0801							
0807	16-20	6.94	1.111	—	0.77	28.53	0.58	0.788	-179.6
0809	16-20	6.96	1.233	—	0.64	28.41	0.62	0.814	-178.0
0811	16-20	6.96	1.255	—	0.57	28.38	0.62	0.816	-177.5
	Sampled at	0812							
0825	26-30	7.01	1.591	—	0.27	27.90	0.82	1.082	-201.5
0827	26-30	7.05	1.689	—	0.27	27.53	0.86	1.114	-198.0
0829	26-30	7.04	1.727	—	0.29	27.40	0.87	1.127	-196.0
	Sampled at	0830							
0841	31-35	7.08	1.781	—	0.18	28.30	0.90	1.164	-217.4
0843	31-35	7.11	1.820	—	0.17	27.74	0.92	1.197	-210.9
0845	31-35	7.10	1.849	—	0.19	27.27	0.94	1.207	-197.3
	Sampled at	0846							
0900	36-40	7.28	1.503	—	0.19	29.11	0.76	0.989	-240.9
0902	36-40	7.31	1.533	—	0.18	28.99	0.77	1.012	-237.1
0904	36-40	7.27	1.565	—	0.18	28.96	0.79	1.027	-240.1
	Sampled at	0905							
0920	41-45	7.46	1.427	—	0.14	30.47	0.71	0.933	-296.3
0922	41-45	7.48	1.457	—	0.13	30.52	0.74	0.967	-297.1
0924	41-45	7.49	1.502	—	0.14	30.50	0.75	0.985	-296.5
	Sampled at	0925							
0941	46-56	7.48	1.548	—	0.13	30.80	0.79	1.036	-331.4
0943	46-50	7.49	1.633	—	0.13	30.96	0.83	1.092	-330.9
0945	46-50	7.49	1.711	—	0.13	30.75	0.87	1.141	-330.0
	Sampled at	0946							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM Project Number: FR1681

DPT Location: Time DPT0139 (next to RR tracks - east) Date: 8/11/10

~~DPT~~ TRD Location	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity ppt %@@	TDS g/L	ORP mV
1019	8-12	6.82	0.936	—	1.10	29.86	0.45	0.600	-107.0
1021	8-12	6.77	0.917	—	0.98	29.76	0.44	0.592	-105.4
1023	8-12	6.75	0.908	—	0.92	29.73	0.44	0.588	-104.3
	Sampled at 1024								
1029	16-20	6.92	1.279	—	0.46	30.22	0.64	0.843	-188.2
1031	16-20	7.02	1.310	—	0.36	30.20	0.65	0.857	-193.0
1033	16-20	7.07	1.322	—	0.34	30.14	0.66	0.862	-194.2
	Sampled at 1034								
1041	26-30	7.07	1.559	—	0.22	30.96	0.78	1.015	-207.7
1043	26-30	7.07	1.570	—	0.21	30.52	0.79	1.027	-204.5
1045	26-30	7.06	1.585	—	0.22	30.30	0.79	1.034	-206.0
	Sampled at 1046								
1055	31-35	7.04	1.309	—	0.15	31.99	0.64	0.836	-225.8
1057	31-35	6.97	1.280	—	0.15	31.98	0.63	0.830	-226.7
1059	31-35	6.97	1.277	—	0.15	31.75	0.63	0.829	-226.7
	Sampled at 1100								
1113	36-40	6.91	1.279	—	0.14	32.34	0.64	0.851	-280.7
1115	36-40	6.96	1.317	—	0.14	32.10	0.65	0.860	-280.1
1117	36-40	6.97	1.327	—	0.15	32.15	0.66	0.865	-279.7
	Sampled at 1118								
1133	41-45	6.98	1.630	—	0.11	31.24	0.84	1.097	-327.0
1135	41-45	7.02	1.726	—	0.10	31.40	0.89	1.170	-323.9
1137	41-45	7.03	1.834	—	0.12	30.14	0.94	1.220	-320.6
	Sampled at 1138								
1157	46-50	7.03	1.436	—	0.09	32.92	0.72	0.970	-319.0
1159	46-50	7.05	1.598	—	0.11	31.31	0.84	1.102	-321.2
1201	46-50	7.05	1.759	—	0.11	31.38	0.90	1.170	-323.0
	Sampled at 1202								

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0140(W)

Project Number: FR1681

Date: 8/11/10

Time ~~DPT Location~~	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
1411	8-12	6.75	0.906	—	1.93	31.00	0.44	0.586	-74.3
1413	8-12	6.67	0.895	—	1.41	30.86	0.43	0.579	-74.0
1415	8-12	6.63	0.889	—	1.23	30.68	0.43	0.576	-71.7
	Sampled at	1416							
1422	12-16	6.54	0.973	—	1.00	31.04	0.48	0.636	-109.3
1424	12-16	6.60	0.981	—	0.95	30.52	0.48	0.634	-106.7
1426	12-16	6.60	0.970	—	0.92	30.35	0.47	0.628	-104.8
	Sampled at	1427							
1430	16-20	6.63	1.030	—	0.71	30.07	0.50	0.669	-134.5
1432	16-20	6.72	1.025	—	0.60	29.97	0.50	0.666	-138.7
1434	16-20	6.72	1.026	—	0.58	29.71	0.50	0.667	-138.7
	Sampled at	1435							
1438	21-25	6.73	1.039	—	0.46	31.10	0.51	0.674	-153.9
1440	21-25	6.74	1.034	—	0.44	30.23	0.50	0.669	-152.1
1442	21-25	6.74	1.024	—	0.43	29.88	0.50	0.662	-150.4
	Sampled at	1443							
1451	26-30	6.82	1.054	—	0.32	30.35	0.52	0.685	-183.1
1453	26-30	6.93	1.050	—	0.29	30.07	0.51	0.679	-183.7
1455	26-30	6.93	1.043	—	0.32	30.00	0.51	0.679	-182.3
	Sampled at	1456							
1503	31-35	7.04	1.508	—	0.17	31.40	0.76	0.995	-227.7
1505	31-35	7.06	1.543	—	0.17	30.97	0.77	1.007	-226.3
1507	31-35	7.06	1.556	—	0.17	30.92	0.78	1.016	-216.5
	Sampled at	1508							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

Project Number: FR1681

DPT Location: DPT0140 (W)

Date: 8/11/10

Time DPT Location	Sample Depth ft	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity ppt ‰	TDS g/L	ORP mV
1517	36-40	7.19	1.918	—	0.11	30.13	0.97	1.264	-252.8
1519	36-40	7.17	1.956	—	0.12	29.91	0.99	1.278	-247.4
1521	36-40	7.14	1.980	—	0.13	29.82	1.00	1.296	-243.7
	Sampled at 1522								
1529	41-45	7.18	1.812	—	0.11	31.06	0.95	1.259	-259.1
1531	41-45	7.22	2.007	—	0.11	30.07	1.04	1.358	-255.5
1533	41-45	7.20	2.014	—	0.12	29.29	1.02	1.318	-251.4
	Sampled at 1534								
1545	46-50	7.19	1.935	—	0.11	31.56	0.98	1.277	-193.7
1547	46-50	7.24	2.017	—	0.10	31.64	1.04	1.346	-198.7
1549	46-50	7.26	2.146	—	0.11	30.07	1.10	1.411	-189.3
	Sampled at FR 1550								

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-0141

Project Number: FR1681

Date: 10/11/10

~~DPT Location~~ Time	Sample Depth	pH std units	Conductivity M S/cm	Turbidity NTUs	Diss. O_2 M g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV	
0859	B-12	7.04	0.907	—	0.50	25.10	0.44	0.583	-378.5	
0901	8-12	6.95	0.895	—	0.45	25.05	0.44	0.581	-439.8	
0903	8-12	6.92	0.893	—	0.43	24.92	0.44	0.582	-456.4	
	sampled at		0903							
0913	16-20	7.32	0.803	—	0.42	25.55	0.39	0.514	-253.1	
0915	16-20	7.31	0.799	—	0.36	25.68	0.35	0.512	-314.7	
0917	16-20	7.29	0.793	—	0.42	25.64	0.38	0.509	-326.9	
	sampled at		0917							
0928	26-30	7.16	1.578	—	0.34	25.23	0.79	1.029	-306.8	
0930	26-30	7.10	1.599	—	0.28	25.16	0.80	1.037	-363.4	]- removed flow thru cell due to clogging
0932	26-30	7.08	1.590	—	0.30	25.32	0.79	1.027	-167.9	
	sampled at		0932							
0949	31-35	7.24	1.775	—	0.54	25.09	0.92	1.189	-390.9	
0951	31-35	7.05	1.914	—	0.18	25.06	0.97	1.249	-481.1	
0953	31-35	6.97	1.934	—	0.19	25.11	0.98	1.255	-460.2	
	sampled at		0953							
1010	36-40	7.01	1.795	—	0.20	25.18	0.90	1.165	-430.4	
1012	36-40	6.93	1.782	—	0.21	24.91	0.90	1.160	-349.6	
1014	36-40	6.91	1.780	—	0.27	25.01	0.90	1.157	-290.5	
	sampled at		1014							
1028	41-45	7.00	1.720	—	0.50	25.34	0.88	1.144	-349.3	
1030	41-45	6.95	1.833	—	0.18	25.39	0.93	1.194	-421.5	
1032	41-45	6.93	1.860	—	0.22	25.47	0.93	1.199	-390.8	
	sampled at		1032							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: time DPT-0141

Project Number: FR1681

Date: 10/11/10

~~DPT~~ Location	Sample Depth	pH std units	Conductivity m S/cm	Turbidity NTUs	Diss. O_2 m g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1051	46-50	7.14	2.010	—	0.60	25.79	1.00	1.285	-192.5
1053	46-50	7.06	1.981	—	0.19	25.68	0.99	1.270	-261.4
1055	46-50	7.01	1.972	—	0.15	25.61	0.99	1.265	-303.4
	sampled	at	1055						

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: ~~Time~~ DPT-0142

Project Number: FR 16881

Date: 10/11/10

~~DPT Location~~	Sample Depth	pH std units	Conductivity MS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1130	8-12	6.86	0.893	—	0.20	28.99	0.40	0.532	-397.5
1132	8-12	6.80	0.873	—	0.19	29.04	0.39	0.524	-422.7
1134	8-12	6.74	0.853	—	0.15	29.34	0.38	0.510	-446.2
	sampled at		1134						
1144	16-20	6.83	1.118	—	0.15	30.47	0.50	0.669	-471.0
1146	16-20	6.84	1.163	—	0.12	30.17	0.52	0.690	-489.1
1148	16-20	6.80	1.169	—	0.13	30.05	0.52	0.693	-484.0
	sampled at		1148						
1259	26-30	7.02	1.316	—	0.18	28.34	0.61	0.806	-416.8
1301	26-30	6.93	1.325	—	0.15	28.32	0.62	0.811	-411.7
1303	26-30	6.86	1.319	—	0.12	27.65	0.62	0.815	-316.0
	sampled at		1303						
1319	31-35	7.11	1.103	—	0.10	27.09	0.86	1.113	-455.4
1321	31-35	7.00	1.785	—	0.10	27.10	0.86	1.790	-457.2
1323	31-35	6.96	1.815	—	0.09	27.90	0.87	1.120	-441.4
	sampled at		1323						
1337	36-40	7.19	2.033	—	0.18	30.55	0.95	1.236	-224.9
1339	36-40	7.12	2.094	—	0.08	30.00	0.96	1.244	-249.5
1341	36-40	7.09	2.114	—	0.05	29.91	0.98	1.260	-429.1
	sampled at		1341						
1357	41-45	7.26	2.057	—	0.11	29.62	0.97	1.255	-267.4
1359	41-45	7.16	2.106	—	0.07	29.17	0.99	1.275	-342.0
1401	41-45	7.05	2.128	—	0.05	28.70	0.99	1.294	-420.4
	sampled at		1401						

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT-0142

Project Number: FR1681

Date: 10/11/10

~~DPT~~ Time ~~Location~~	Sample Depth	pH std units	Conductivity mS/cm	Turbidity NTUs	Diss. O_2 mg/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1419	46-50	7.24	2.197	—	0.12	28.95	1.05	1.351	-263.6
1421	46-50	7.15	2.271	—	0.06	28.69	1.08	1.390	-342.0
1423	46-50	7.12	2.306	—	0.04	28.67	1.10	1.410	-373.3
	sampled at		1423						

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: Time DPT-0143

Project Number: FR1681

Date: 10/11/10

~~DPT Location~~	Sample Depth	pH std units	Conductivity M S/cm	Turbidity NTUs	Diss. O_2 M g/L	Temp deg. C	Salinity %	TDS g/L	ORP mV
1531	26-30	7.08	1.267	—	0.40	31.17	0.56	0.738	-250.6
1533	26-30	6.92	1.259	—	0.17	30.85	0.55	0.732	-279.9
1535	26-30	6.81	1.231	—	0.16	30.63	0.54	0.721	-283.6
	sampled at		1535						
1548	31-35	6.88	1.208	—	0.20	30.70	0.53	0.716	-153.5
1550	31-35	6.87	1.197	—	0.11	29.60	0.54	0.710	-144.0
1552	31-35	6.78	1.165	—	0.11	29.50	0.53	0.703	-135.8
	sampled at		1552						
1605	36-40	7.01	1.458	—	0.30	30.80	0.68	0.895	-259.6
1607	36-40	7.01	1.530	—	0.08	29.67	0.69	0.910	-259.3
1609	36-40	6.91	1.501	—	0.09	28.82	0.69	0.907	-285.5
	sampled at		1609						
1625	41-45	7.21	1.879	—	0.18	29.50	0.89	1.168	-187.3
1627	41-45	7.16	1.982	—	0.09	28.87	0.94	1.209	-176.4
1629	41-45	7.09	1.998	—	0.11	28.41	0.95	1.219	-160.3
	sampled at		1629						
1647	46-50	7.19	2.226	—	0.30	30.38	1.05	1.359	-207.5
1649	46-50	7.21	2.406	—	0.04	30.18	1.11	1.426	-221.7
1651	46-50	7.20	2.412	—	0.05	29.89	1.11	1.436	-206.1
	sampled at		1651						

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681 / CRHE

Date: 10/11/10 – DPT-0144

~~Time~~	~~DPT Location~~ Time	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1710	8-12	7.05	0.912	—	0.18	30.17	0.40	0.535	-149.1	
1712	~~1710~~	8-12	7.12	0.899	—	0.16	30.06	0.40	0.533	-160.8	
1714	~~1710~~	8-12	7.17	0.895	—	0.59	30.09	0.39	0.528	-148.5	
		sampled at		1714							
10/12/10											
	0736	16-20	6.42	1.369	—	0.27	24.55	0.69	0.897	-128.7	
	0738	16-20	6.49	1.349	—	0.26	24.44	0.68	0.884	-85.9	
	0740	16-20	6.50	1.342	—	0.26	24.43	0.68	0.880	-95.9	
		sampled at		0740							
	0753	26-30	6.74	1.542	—	0.60	21.97	0.87	1.125	-164.9	
	0755	26-30	6.90	1.767	—	0.22	23.17	0.96	1.230	-176.3	
	0757	26-30	6.91	1.911	—	0.21	23.77	0.98	1.281	-171.9	
		sampled at		0757							
	0822	31-35	7.24	1.337	—	0.70	24.69	0.69	0.901	-115.2	
	0824	31-35	6.92	1.434	—	0.22	25.17	0.72	0.931	-105.4	
	0826	31-35	6.87	1.436	—	0.22	25.02	0.72	0.933	-104.6	
		sampled at		0826							
	0843	36-40	6.83	1.530	—	0.13	25.59	0.76	0.982	-137.0	
	0845	36-40	6.82	1.527	—	0.14	25.59	0.76	0.981	-136.0	
	0847	36-40	6.80	1.523	—	0.16	25.54	0.75	0.979	-134.4	
		sampled at		0847							
	0906	41-45	7.10	1.774	—	0.43	25.44	0.91	1.183	-177.0	
	0908	41-45	7.09	1.894	—	0.20	25.81	0.96	1.231	-179.6	
	0910	41-45	7.03	1.981	—	0.11	26.16	0.99	1.270	-186.8	
		sampled at		0910							

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/12/10 DPT-0144

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	0930	46-50	7.10	1.845	—	0.23	25.86	0.94	1.220	-162.7	
	0932	46-50	7.12	1.939	—	0.16	26.03	0.97	1.253	-167.7	
	0934	46-50	7.05	1.996	—	0.10	26.28	0.99	1.268	-156.1	
		sampled at		0934							
	0959	51-55	7.29	2.535	—	0.23	27.15	1.26	1.605	-204.1	
	1001	51-55	7.21	2.599	—	0.18	27.17	1.29	1.643	-205.7	
	1003	51-55	7.20	2.564	—	0.13	27.11	1.34	1.694	-205.0	
		sampled at		1003							
	1028	61-65	7.41	3.662	—	0.37	27.56	1.99	2.557	-228.1	
	1030	61-65	7.39	4.269	—	0.13	27.05	2.19	2.699	-225.7	
	1032	61-65	7.39	4.371	—	0.10	27.07	2.23	2.743	-224.3	
		sampled at		1032							

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRITE / FR1681

Date: 10/12/10 DPT-0145

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1115	8-12	7.00	1.116	—	0.51	28.36	0.51	0.672	-144.7	
	1117	8-12	7.01	1.095	—	0.20	28.61	0.50	0.665	-160.1	
	1119	8-12	6.79	1.042	—	0.13	28.59	0.47	0.627	-176.1	
		sampled at		1119							
	1128	16-20	7.09	1.660	—	0.51	29.35	0.77	1.010	-167.4	
	1130	16-20	6.96	1.693	—	0.11	28.80	0.79	1.024	-167.8	
	1132	16-20	6.92	1.011	—	0.10	28.68	0.77	1.006	-162.1	
		sampled at		1132							
	1141	26-30	7.08	1.640	—	0.58	29.33	0.75	0.980	-157.2	
	1143	26-30	6.95	1.672	—	0.11	29.09	0.78	1.020	-153.1	
	1145	26-30	6.87	1.742	—	0.11	28.88	0.82	1.063	-147.3	
		sampled at		1145							
	1157	31-35	7.10	1.724	—	0.40	29.52	0.81	1.054	-170.7	
	1159	31-35	7.05	1.799	—	0.11	29.25	0.83	1.084	-174.9	
	1201	31-35	7.01	1.799	—	0.10	29.11	0.83	1.083	-171.4	
		sampled at		1201							
	1301	36-40	7.25	1.805	—	0.96	28.75	0.83	1.064	-142.5	
	1303	36-40	7.14	1.720	—	0.76	28.11	0.81	1.052	-131.1	
	1305	36-40	7.09	1.708	—	0.70	28.07	0.81	1.046	-127.9	
		sampled at		1305							
	1319	41-45	7.31	2.179	—	0.93	29.95	1.05	1.378	-186.4	
	1321	41-45	7.26	2.399	—	0.20	29.73	1.13	1.444	-196.6	
	1323	41-45	7.25	2.458	—	0.18	29.48	1.15	1.476	-195.4	
		sampled at		1323							

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1684

Date: 10/12/10 DPT-0145

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1338	46-50	7.25	2.956	—	0.22	30.90	1.22	1.572	-189.4	
	1340	46-50	7.22	2.848	—	0.15	30.72	1.33	1.698	-191.0	
	1342	46-50	7.18	2.989	—	0.13	30.60	1.39	1.766	-185.0	
		sampled at		1342							
	1402	51-55	7.35	3.336	—	0.37	28.93	1.65	2096	-166.3	
	1404	51-55	7.30	3.461	—	0.17	27.74	1.71	2.130	-143.9	
	1406	51-55	7.25	3.400	—	0.15	27.35	1.69	2.109	-127.1	
		sampled at		1406							
	1433	61-65	7.36	3.899	—	0.37	30.07	1.92	2.415	-171.9	
	1435	61-65	7.32	4.257	—	0.15	29.56	2.07	2.574	-185.6	
	1437	61-65	7.33	4.395	—	0.12	29.26	2.15	2.661	-196.1	
		sampled at		1437							

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/12/10 DPT-0139

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1514	51-55	7.30	2.728	—	0.34	27.90	1.35	1.748	-164.1	
	1516	51-55	7.09	2.935	—	0.26	27.08	1.46	1.831	-145.0	
	1518	51-55	6.93	2.868	—	0.14	26.96	1.42	1.793	-129.5	
		Sampled at 1518									
	1534	61-65	7.18	4.206	—	0.64	28.70	2.10	2.608	-145.6	
	1536	61-65	7.07	4.388	—	0.15	28.22	2.19	2.696	-157.7	
	1538	61-65	7.12	4.476	—	0.09	28.29	2.23	2.746	-166.6	
		Sampled at 1538									

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/12/10 DPT-0146

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1613	26-30	7.13	1.197	—	0.48	28.42	0.55	0.731	-107.2	
	1615	26-30	6.82	1.170	—	0.22	28.14	0.54	0.710	-106.5	
	1617	26-30	6.72	1.135	—	0.15	28.00	0.53	0.695	-105.0	
		sampled at		1617							
	1627	31-35	6.67	1.176	—	0.75	29.07	0.55	0.730	-138.1	
	1629	31-35	6.72	1.248	—	0.18	28.79	0.57	0.759	-145.1	
	1631	31-35	6.71	1.253	—	0.17	28.66	0.58	0.760	-142.9	
		sampled at		1631							
	1642	36-40	6.90	1.444	—	0.85	28.65	0.66	0.869	-124.0	
	1645	36-40	6.72	1.405	—	0.21	27.74	0.66	0.859	-110.2	
	1647	36-40	6.64	1.368	—	0.19	27.38	0.65	0.846	-99.4	
		sampled at		1647							
	1659	41-45	7.19	2.179	—	0.34	30.46	1.02	1.324	-155.7	
	1701	41-45	6.97	2.303	—	0.18	30.05	1.08	1.391	-159.1	
	1703	41-45	6.95	2.410	—	0.13	29.82	1.13	1.453	-158.7	
		sampled	at	1703							
	1718	46-50	7.21	2.421	—	0.21	30.91	~~1.17~~ 1.15 (SR)	1.447	-168.7	
	1720	46-50	6.98	2.595	—	0.16	30.59	1.21	1.550	-172.5	
	1722	46-50	6.98	2.717	—	0.12	30.15	1.27	1.624	-173.8	
		sampled	at	1722							

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/13/10 DPT-0147

~~Time~~	Time ~~DPT~~ Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	0849	26-30	7.16	0.8335	—	0.72	25.96	0.38	0.502	-176.2	
	0851	26-30	6.98	0.760	—	0.21	25.60	0.36	0.483	-177.2	
	0853	26-30	6.93	0.746	—	0.17	25.53	0.36	0.478	-175.5	
		sampled at		0853							
	0905	31-35	7.29	0.759	—	0.60	25.14	0.37	0.496	-179.2	
	0907	31-35	7.18	0.775	—	0.14	25.46	0.37	0.500	-186.2	
	0909	31-35	7.15	0.780	—	0.11	25.52	0.38	0.502	-185.6	
		sampled at		0909							
	0922	36-40	7.19	0.922	—	0.11	25.60	0.45	0.604	-206.2	
	0924	36-40	7.16	0.999	—	0.08	25.82	0.48	0.640	-204.6	
	0926	36-40	7.14	0.992	—	0.08	25.77	0.48	0.634	-199.5	
		sampled at		0926							
	0941	41-45	7.28	1.572	—	0.12	25.53	0.82	1.072	-198.4	
	0943	41-45	7.18	1.788	—	0.12	25.77	0.90	1.169	-198.3	
	0945	41-45	7.12	1.923	—	0.09	25.86	0.96	1.235	-190.6	
		sampled at		0945							
	1000	46-50	7.30	1.973	—	0.41	27.10	0.98	1.279	-192.3	
	1002	46-50	7.17	2.223	—	0.09	27.06	1.10	1.417	-184.1	
	1004	46-50	7.08	2.293	—	0.09	26.99	1.13	1.441	-173.2	
		sampled at		1004							

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1881

Date: 10/13/10 DPT-0148

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color/ Notes~~
	1042	8-12	7.61	1,180	—	3.42	29.35	0.53	0.704	-115.9	
	1044	8-12	7.08	1,122	—	4.25	29.14	0.51	0.674	-109.6	
	1046	8-12	7.03	1,104	—	3.57	28.72	0.50	0.668	-90.0	
		sampled at		1046							
	1056	16-20	7.10	2.205	—	0.75	29.03	1.06	1,367	-158.9	
	1058	16-20	6.94	2.298	—	0.10	28.78	1.09	1.394	-146.2	
	1100	16-20	6.92	2.301	—	0.13	28.64	1.09	1.399	-135.0	
		sampled at		1100							
	1110	26-30	7.09	1,786	—	0.30	28.96	0.84	1.091	-158.7	
	1112	26-30	6.99	1,801	—	0.11	28.82	0.84	1.089	-154.3	
	1114	26-30	6.90	1,792	—	0.10	28.59	0.84	1.090	-146.2	
		sampled at		1114							
	1126	31-35	7.24	1.691	—	0.65	29.38	0.79	1.039	-158.0	
	1128	31-35	6.94	1.622	—	0.11	28.54	0.81	1.055	-154.5	
	1130	31-35	6.91	1.623	—	0.10	28.66	0.81	1.055	-153.7	
		sampled	at	1130							
	1149	36-40	7.42	2.007	—	0.31	30.32	0.93	1.219	-182.8	
	1151	36-40	7.06	2.081	—	0.13	28.52	0.99	1.270	-170.9	
	1153	36-40	6.96	2.068	—	0.09	28.19	0.98	1.266	-159.3	
		sampled	at	1153							
	1210	41-45	7.28	2.626	—	0.53	29.62	1.22	1,555	-165.7	
	1212	41-45	7.04	2.621	—	0.12	28.39	1.26	1.603	-151.4	
	1214	41-45	6.96	2.597	—	0.12	27.83	1.26	1.601	-138.2	
		sampled	at	1214							

Notes:
DPT = Direct Push Technology
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DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/13/10 DPT-0148

~~Time~~	~~Time DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1228	46-50	7.18	2.649	—	0.74	30.15	1.24	1.585	-181.4	
	1230	46-50	7.13	2.758	—	0.09	29.75	1.30	1.653	-181.2	
	1232	46-50	7.10	2.818	—	0.09	29.83	1.32	1.680	-178.2	
		sampled	at	1232							

Notes:

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/ FR1681

Date: 10/13/10 DPT-0149

~~Time~~	~~DPT~~ Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1424	8-12	~~6.56~~ SR 7.34	0.971	—	0.64	28.80	0.44	0.580	-94.8	
	1426	8-12	6.86	0.936	—	0.24	28.43	0.43	0.570	-96.0	
	1428	8-12	6.81	0.929	—	0.24	28.43	0.42	0.566	-97.4	
		sampled	at	1428							
	1434	16-20	7.06	0.999	—	0.59	29.43	0.45	0.596	-157.9	
	1436	16-20	7.01	0.983	—	0.23	28.84	0.44	0.593	-155.5	
	1438	16-20	6.92	0.960	—	0.15	28.49	0.44	0.584	-145.1	
		sampled	at	1438							
	1446	26-30	7.15	1.050	—	0.31	28.90	0.48	0.640	-146.0	
	1448	26-30	7.00	1.051	—	0.22	28.12	0.48	0.640	-138.4	
	1450	26-30	6.88	1.019	—	0.15	27.69	0.47	0.628	-127.1	
		sampled	at	1450							
	1501	31-35	7.19	1.375	—	0.61	28.91	0.66	0.865	-166.7	
	1503	31-35	7.07	1.459	—	0.13	28.52	0.68	0.892	-170.9	
	1505	31-35	7.01	1.460	—	0.13	28.11	0.69	0.897	-160.2	
		sampled	at	1505							
	1517	36-40	7.25	1.609	—	0.33	29.37	0.78	1.051	-164.0	
	1519	36-40	7.07	1.801	—	0.13	28.08	0.85	1.109	-162.8	
	1521	36-40	7.03	1.811	—	0.11	27.92	0.86	1.117	-155.4	
		sampled	at	1521							
	1534	41-45	7.30	1.739	—	0.39	28.45	0.84	1.091	-185.5	
	1536	41-45	7.17	1.839	—	0.25	28.36	0.88	1.145	-199.7	
	1538	41-45	7.15	1.890	—	0.13	28.12	0.90	1.172	-202.4	
		sampled	at	1538							

Notes:
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DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/13/10 DPT-0149

~~Time~~	~~Time DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1555	46-50	7.12	2.137	—	0.12	28.14	1.03	1.329	-201.6	
	1557	46-50	7.13	2.089	—	0.09	28.01	1.07	1.375	-198.8	
	1559	46-50	7.08	2.365	—	0.07	27.93	1.14	1.459	-186.2	
		Sampled at 1559									

Notes:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/13/10 DPT-0150

~~Time~~	~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1636	26-30	7.23	1,340	—	0.35	28.37	0.62	0.821	-162.0	
	1638	26-30	7.13	1,343	—	0.16	28.04	0.63	0.824	-157.8	
	1640	26-30	7.06	1,336	—	0.11	27.86	0.63	0.823	-152.2	
		sampled at		1640							
10/14/10											
	0736	31-35	6.90	1,347	—	0.45	23.69	0.66	0.861	-130.9	
	0738	31-35	6.69	1,312	—	0.26	24.35	0.66	0.866	-158.0	
	0740	31-35	6.74	1,317	—	0.19	24.35	0.67	0.867	-162.4	
		sampled at		0740							
	0754	36-40	7.38	1,297	—	0.64	23.54	0.69	0.901	-163.2	
	0756	36-40	7.32	1,391	—	0.30	24.12	0.72	0.939	-177.8	
	0758	36-40	7.33	1,464	—	0.15	24.26	0.75	0.972	-184.8	
		sampled at		0758							
	0813	41-45	7.40	1,359	—	0.32	24.07	0.70	0.916	-166.7	
	0815	41-45	7.33	1,400	—	0.15	24.08	0.71	0.926	-167.4	
	0817	41-45	7.30	1,398	—	0.13	24.06	0.71	0.925	-159.8	
		sampled at		0817							
	0837	46-50	7.30	2,574	—	0.17	24.58	1.36	1.727	-184.2	
	0839	46-50	7.30	2,661	—	0.14	24.60	1.40	1.764	-186.1	
	0841	46-50	7.29	2,748	—	0.12	24.54	1.44	1.811	-183.6	
		sampled at		0841							
	0909	51-55	7.41	3,361	—	0.51	24.39	1.81	2.246	-190.7	
	0911	51-55	7.40	3,485	—	0.26	24.40	1.85	2.241	-200.1	
	0913	51-55	7.42	3,476	—	0.14	24.36	1.85	2.289	-206.6	
		sampled at		0913							

Notes:
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TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/14/10 DPT-0150

~~Time~~	Time ~~DPT~~ Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	0932	61-65	7.55	3.895	—	0.32	25.92	2.03	2.517	-197.9	
	0934	61-65	7.50	3.994	—	0.11	25.93	2.08	2.565	-207.4	
	0936	61-65	7.50	4.036	—	0.11	25.89	2.08	2.592	-211.2	
		sampled	at	0936							

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/14/10 DPT-0151

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1028	26-30	7.80	0.694	—	0.50	26.98	0.32	0.433	-176.0	
	1030	26-30	7.54	0.676	—	0.13	26.45	0.32	0.425	-169.2	
	1032	26-30	7.40	0.667	—	0.10	26.39	0.31	0.421	-165.0	
		sampled at		1032							
	1051	31-35	7.62	0.999	—	0.39	28.24	0.47	0.623	-169.4	
	1053	31-35	7.48	0.997	—	0.13	27.54	0.47	0.617	-177.1	
	1055	31-35	7.48	0.955	—	0.12	27.51	0.44	0.587	-176.0	
		sampled at		1055							
	1113	36-40	7.47	2.217	—	0.13	27.61	1.09	1.392	-166.7	
	1115	36-40	7.43	2.269	—	0.11	27.40	1.11	1.415	-162.1	
	1117	36-40	7.39	2.280	—	0.10	27.48	1.11	1.416	-157.6	
		sampled at		1117							
	1135	41-45	7.70	1.470	—	0.70	27.82	0.76	1.008	-180.9	
	1137	41-45	7.60	1.709	—	0.12	27.80	0.83	1.088	-199.5	
	1139	41-45	7.56	1.997	—	0.09	27.87	0.97	1.258	-207.4	
		sampled at		1139							
	1156	46-50	7.65	2.368	—	0.29	28.94	1.14	1.461	-167.9	
	1158	46-50	7.48	2.487	—	0.17	28.42	1.20	1.526	-182.1	
	1200	46-50	7.46	2.541	—	0.12	28.19	1.23	1.560	-185.7	
		sampled at		1200							
	1253	51-55	7.70	2.478	—	0.72	29.55	1.28	1.667	-178.7	
	1255	51-55	7.56	3.136	—	0.17	28.66	1.54	1.962	-196.7	
	1257	51-55	7.55	3.326	—	0.11	28.37	1.63	2.067	-202.2	
		sampled at		1257							

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/14/10 DPT-0151

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1320	61-65	7.55	4.046	—	0.32	27.05	2.08	2.575	+179.6	
	1322	61-65	7.53	4.167	—	0.13	26.95	2.13	26.24	-183.5	
	1324	61-65	7.49	4.231	—	0.13	27.22	2.14	27.24	-176.2	
		sampled at		1324							

Notes:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/14/10 DPT-0152

~~Time~~	~~Time DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1418	8-12	7.78	0.660	—	0.60	27.08	0.31	0.411	-157.3	
	1420	8-12	7.66	0.655	—	0.20	27.09	0.30	0.409	-167.9	
	1422	8-12	7.60	0.653	—	0.13	27.16	0.30	0.407	-177.9	
		sampled at		1422							
	1433	16-20	7.52	0.669	—	0.25	27.57	0.33	0.440	-167.8	
	1435	16-20	7.40	0.710	—	0.12	27.60	0.33	0.440	-166.0	
	1437	16-20	7.37	0.704	—	0.10	27.29	0.33	0.438	-164.5	
		sampled at		1437							
	1444	26-30	7.57	0.626	—	0.64	27.57	0.29	0.387	-141.8	
	1446	26-30	7.51	0.617	—	0.31	26.77	0.29	0.387	-155.8	
	1448	26-30	7.49	0.610	—	0.24	26.58	0.28	0.384	-164.2	
		sampled	at	1448							
	1507	31-35	7.58	0.676	—	0.39	26.38	0.32	0.432	-195.6	
	1509	31-35	7.49	0.685	—	0.33	25.98	0.33	0.439	-200.1	
	1511	31-35	7.45	0.695	—	0.33	25.99	0.33	0.442	-198.0	
		sampled	at	1511							
	1538	36-40	7.63	1.052	—	0.29	29.24	0.50	0.676	-190.9	
	1540	36-40	7.48	1.173	—	0.14	28.94	0.55	0.741	-189.3	
	1542	36-40	7.35	1.299	—	0.10	28.75	0.61	0.799	-183.6	
		sampled	at	1542							
	1557	41-45	7.47	1.595	—	0.31	29.63	0.77	1.034	-208.8	
	1559	41-45	7.48	1.826	—	0.13	29.23	0.90	1.183	-214.6	
	1601	41-45	7.40	2.142	—	0.10	28.88	~~1.0~~	1.347	-210.0	
		sampled	at	1601				1.03			

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/14/10 DPT-0152

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1618	46-50	7.33	2.069	—	0.60	29.30	0.95	1.228	-221.2	
	1620	46-50	7.39	2.012	—	0.19	29.18	0.94	1.208	-229.1	
	1622	46-50	7.42	2.009	—	0.11	29.08	0.94	1.212	-235.2	
		sampled at	1622								

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/14/10 DPT-0153

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1706	28-30	7.30	1.781	—	0.38	27.30	0.86	1.119	-151.2	
	1708	26-30	7.16	1.767	—	0.18	26.15	0.87	1.116	-137.2	
	1710	26-30	7.03	1.738	—	0.12	25.95	0.86	1.108	-129.7	
		sampled	at	1710							
10/15/10											
	0816	31-35	6.48	1.731	—	0.19	22.45	0.92	1.183	-179.2	
	0818	31-35	6.74	1.732	—	0.17	22.50	0.92	1.733	-184.9	
	0820	31-35	6.79	1.733	—	0.14	22.52	0.92	1.183	-187.3	
		sampled	at	0820							
	0838	36-40	7.22	1.645	—	0.23	22.66	0.89	1.143	-172.8	
	0840	36-40	7.15	1.735	—	0.15	22.91	0.92	1.185	-183.8	
	0842	36-40	7.14	1.771	—	0.14	22.90	0.94	1.203	-186.4	
		sampled	at	0842							
	0901	41-45	7.37	1.606	—	0.40	23.04	0.88	1.139	-173.2	
	0903	41-45	7.25	1.803	—	0.14	23.48	0.95	1.217	-186.6	
	0905	41-45	7.21	1.849	—	0.11	23.52	0.97	1.238	-182.4	
		sampled	at	0905							
	0922	46-50	7.41	1.751	—	0.25	22.63	0.96	1.236	-177.3	
	0924	46-50	7.37	1.954	—	0.14	23.00	1.07	1.372	-185.9	
	0926	46-50	7.24	2.234	—	0.09	23.61	1.18	1.503	-181.6	
		sampled	at	0926							
	0944	51-55	7.24	2.198	—	0.16	22.74	1.15	1.453	-196.2	
	0946	51-55	7.32	2.398	—	0.13	22.93	1.30	1.646	-209.4	
	0948	51-55	7.33	2.608	—	0.11	23.11	1.43	1.797	-214.7	
		sampled	at	0948							

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRIFE | FR1681

Date: 10/15/10 DPT - 0153

~~Time~~	Time ~~DPT~~ Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color~~ / Notes
	1010	61-65	7.39	2.339	—	0.22	23.53	1.29	1.650	-192.6	
	1012	61-65	7.36	2.598	—	0.13	23.58	1.42	1.792	-201.8	
	1014	61-65	7.34	2.884	—	0.07	23.86	1.56	1.956	-212.1	
		sampled	at	1014							

Notes:

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: DPT-0154 10/15/10

~~Time~~	Time ~~DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1048	8-12	7.48	0.936	—	0.33	25.54	0.45	0.603	-99.1	
	1050	8-12	7.12	0.918	—	0.15	25.32	0.44	0.589	-102.0	
	1052	8-12	7.06	0.908	—	0.14	25.28	0.44	0.586	-104.0	
		sampled at		1052							
	1058	16-20	7.20	0.923	—	0.31	26.05	0.44	0.589	-138.7	
	1100	16-20	7.11	0.925	—	0.13	26.00	0.44	0.590	-142.7	
	1102	16-20	7.07	0.922	—	0.09	25.79	0.44	0.590	-145.2	
		sampled at		1102							
	1112	26-30	7.00	1.699	—	0.13	26.22	0.58	0.759	-175.2	
	1114	26-30	7.08	1.199	—	0.10	25.98	0.58	0.762	-174.7	
	1116	26-30	7.08	1.172	—	0.11	25.39	0.58	0.755	-167.4	
		sampled at		1116							
	1126	31-35	7.32	1.276	—	0.13	25.91	0.63	0.823	-161.7	
	1128	31-35	7.30	1.300	—	0.12	26.01	0.64	0.834	-167.5	
	1130	31-35	7.28	1.322	—	0.11	26.03	0.65	0.845	-173.5	
		sampled at		1130							
	1141	36-40	7.61	1.159	—	0.18	25.94	0.58	0.765	-149.0	
	1143	36-40	7.41	1.254	—	0.12	26.02	0.62	0.813	-171.8	
	1145	36-40	7.33	1.326	—	0.08	26.22	0.65	0.848	-177.0	
		sampled at		1145							
	1203	41-45	7.64	1.683	—	0.10	25.09	0.85	1.098	-196.7	
	1205	41-45	7.61	1.689	—	0.08	24.72	0.86	1.104	-184.4	
	1207	41-45	7.59	1.690	—	0.09	24.77	0.86	1.104	-181.2	
		sampled at		1207							

Notes:

DPT = Direct Push Technology

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: DPT-0154 10/15/10

Time	~~DPT~~ Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1223	46-50	7.74	1.612	—	0.23	25.41	0.85	1.117	-176.7	
	1225	46-50	7.63	1.842	—	0.13	25.32	0.95	1.222	-179.7	
	1227	46-50	7.57	1.957	—	0.11	25.29	0.98	1.283	-179.1	
		sampled at	1227								

Notes:

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CRHE~~ CRHE / FA1681

Date: 10/15/10 DPT - 0155

~~Time~~	~~Time DPT Location~~	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color / Notes~~
	1342	8-12	7.37	0.930	—	0.14	27.39	0.43	0.578	-149.2	
	1344	8-12	7.18	0.932	—	0.13	27.59	0.43	0.577	-152.4	
	1346	8-12	7.11	0.930	—	0.14	27.73	0.43	0.574	-153.9	
		sampled at		1346							
	1353	16-20	7.10	0.835	—	0.25	27.11	0.41	0.553	-140.4	
	1355	16-20	7.06	0.914	—	0.14	26.88	0.43	0.576	-155.2	
	1357	16-20	7.03	0.928	—	0.13	26.92	0.43	0.583	-156.3	
		sampled at		1357							
	1406	26-30	7.00	0.903	—	0.56	26.56	0.44	0.584	-181.5	
	1408	26-30	7.04	0.973	—	0.15	27.33	0.49	0.654	-195.2	
	1410	26-30	7.09	1.072	—	0.13	27.39	0.50	0.679	-195.9	
		sampled at		1410							
	1430	31-35	7.20	1.093	—	0.10	27.13	0.52	0.692	-198.1	
	1432	31-35	7.20	1.082	—	0.08	27.27	0.53	0.705	-199.2	
	1434	31-35	7.23	1.135	—	0.08	26.98	0.54	0.713	-199.2	
		sampled at		1434							
	1446	36-40	7.46	1.255	—	0.45	27.69	0.60	0.788	-127.4	
	1448	36-40	7.31	1.288	—	0.30	27.52	0.61	0.806	-163.4	
	1450	36-40	7.27	1.254	—	0.21	27.55	0.62	0.819	-177.1	
		sampled at		1450							
	1507	41-45	7.45	1.487	—	0.51	26.75	0.75	0.992	-154.3	
	1509	41-45	7.23	1.668	—	0.13	26.05	0.83	1.075	-153.0	
	1511	41-45	7.17	1.695	—	0.10	25.86	0.84	1.087	-154.7	
		sampled at		1511							

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681

Date: 10/15/10 DPT-0155

~~Time~~	~~Time~~ ~~DPT~~ Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	~~Color~~ / Notes
	1524	46-50	7.85	1.196	—	0.37	27.20	0.57	0.747	-159.0	
	1526	46-50	7.40	1.192	—	0.26	27.13	0.56	0.741	-173.8	
	1528	46-50	7.32	1.415	—	0.09	27.33	0.70	0.921	-185.4	
		Sampled at		1528							

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 - Contractor's Road

Date: 10-19-2011

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0920	~~0275~~	26-30	6.86	0.643	Not	4.35	26.05	0.32	0.433	-29.1	Tan
0922	0156	(028.0)	6.85	0.664	Recorded	0.50	25.95	0.32	0.428	-59.6	↓
0929		—	6.91	0.652		0.24	25.78	0.31	0.421	~~-107.1~~ -144.6	↓
0933		31-35	7.07	0.624		2.64	26.05	0.36	0.491	-113.3	Tan
0935		(033.0)	6.99	0.767		0.45	25.99	0.37	0.498	-121.7	↓
0937		—	6.99	0.765		0.35	25.97	0.37	0.497	-152.3	↓
0945		36-40	7.09	0.576		2.35	26.15	0.33	0.450	-105.7	Clear
0947		(038.0)	7.09	0.710		0.43	26.07	0.35	0.463	-119.7	↓
0949		—	7.05	0.712		0.34	25.94	0.34	0.462	~~-129.7~~ -166.7	↓
0959		41-45	6.76	0.791		2.19	26.47	0.39	0.523	-118.9	Gray
1001		(043.0)	6.97	0.819		0.66	26.24	0.41	0.546	-129.3	↓
1003		—	6.95	0.855		0.27	26.06	0.42	0.566	-129.6	↓
1015		46-50	6.85	0.712		2.00	26.53	0.43	0.586	-124.6	Gray
1017		(048.0)	7.07	0.950		0.52	26.26	0.47	0.629	-137.7	↓
1019		—	7.11	0.975	↓	0.40	26.11	0.48	0.638	-157.4	↓
				decon	5 screens						

Notes:
DPT = Direct Push Technology
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DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 - Contractors Road

Date: 10-19-2011

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1102	~~0236~~	26-30	7.32	0.900	Not	3.84	28.66	0.44	0.589	-81.8	Gray
1104	0157	(028.0)	7.01	0.907	Recorded	0.37	28.06	0.44	0.589	-104.7	↓
1106	↓	—	6.95	0.906	↓	0.20	27.70	0.44	0.589	-130.1	↓
1114		31-35	6.88	0.525		4.34	28.45	0.47	0.631	-97.2	Tan
1116		(033.0)	6.96	0.974		0.76	28.17	0.48	0.634	-126.3	↓
1118		—	6.95	0.977		0.28	28.07	0.48	0.636	-162.1	↓
1226		36-40	6.82	1.012		3.07	29.50	0.49	0.655	-115.9	Gray
1228		(038.0)	6.99	1.003		0.52	28.59	0.49	0.651	-127.3	↓
1230		—	6.99	1.002		0.32	28.25	0.49	0.652	-143.1	↓
1241		41-45	6.79	1.254		2.83	29.59	0.64	0.858	-112.4	Tan
1243		(043.0)	6.95	1.328		0.41	29.26	0.66	0.862	-126.4	↓
1245		—	6.97	1.327		0.27	29.00	0.66	0.868	-144.2	↓
1258		46-50	6.76	1.769		2.08	28.90	0.94	1.188	-116.6	Tan
1300		(048.0)	6.46	1.869		0.63	28.72	0.95	1.226	-129.3	↓
1302		—	7.00	1.895		0.24	28.49	0.96	1.235	-146.6	↓
				decon	5 Screens						

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 - Contractors Road

Date: 10-19-2011

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1343	0158	26-30	6.47	1.310	Not Recorded	0.94	29.54	0.65	0.858	-66.6	Tan
1345		(028.0)	6.45	1.327		0.28	29.16	0.660	.864	-77.5	↓
1347		—	6.46	1.329		0.30	29.00	0.66	0.863	-100.8	↓
1359		31-35	6.87	0.791		5.32	29.02	0.73	0.959	-96.8	Tan
1401		(033.0)	6.82	1.503		0.88	29.07	0.75	0.958	-116.5	↓
1403		—	6.79	1.521		0.36	29.03	0.76	0.997	-139.5	↓
1416		36-40	6.82	1.483		1.61	29.17	0.75	0.984	-132.0	Gray
1418		(038.0)	6.81	1.531		0.48	28.48	0.77	1.001	-125.7	↓
1420		—	6.77	1.540		0.48	27.45	0.76	0.988	-101.5	↓
1431		41-45	6.56	1.503		1.14	28.01	0.69	0.894	-105.3	Gray
1433		(043.0)	6.68	1.344		0.78	28.33	0.67	0.883	-123.6	↓
1435		—	6.74	1.377		0.59 0.59	28.24	0.70	0.911	-175.1	↓
1447		46-50	6.76	1.529		1.82	27.81	0.80	1.051	-145.7	Tan
1449		(048.0)	6.95	1.653		0.45	27.83	0.85	1.112	-151.2	↓
1451	↓	—	6.98	1.743	↓	0.33	27.48	0.89	1.152	-158.1	↓

Notes:

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 - Contractors Road

Date: 10-19-2011

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1557	0159	26-30	6.59	1.220	Not	5.31	26.32	0.61	0.804	-39.5	Clear
1559	↓	(028.0)	6.65	Recorded	Recorded	0.35	26.38	0.63	0.824	-61.3	↓
1601		—	6.64	1.272		0.20	26.31	0.63	0.828	-113.1	
1609		31-35	6.40	0.718		2.76	26.42	0.61	0.854	-114.4	Clear
1611		(033.0)	6.87	1.334		0.74	26.44	0.67	0.873	-124.1	↓
1613		—	6.87	1.347		0.41	26.30	0.67	0.878	~~-132.5~~ -146.9 DS	↓
1624		36-40	6.85	2.174		1.05	26.33	1.16	1.480	-132.7	Clear
1626		(038.0)	6.95	2.332		0.30	26.27	1.22	1.547	-138.2	↓
1628		—	6.94	2.418		0.18	26.06	1.24	1.569	-139.0	↓
1640		41-45	6.96	2.478		1.80	26.38	1.31	1.668	-144.8	Tan
1642		(043.0)	6.95	2.628		0.25	25.97	1.38	1.740	-143.8	↓
1644		—	6.94	2.704		0.20	25.75	1.41	1.773	-140.6	↓
1653		46-50	6.91	3.088		2.58	25.34	1.62	2.030	-109.6	Gray
1655	↓	(048.0)	6.94	3.133		0.25	25.10	1.64	2.042	-116.5	↓
1657	↓	—	6.95	3.143	↓	0.11	25.02	1.64	2.043	-128.7	↓

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 - CRHE

Date: 10-20-2011

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0803	0160	26-30	6.27	0.492	Not	3.65	18.19	0.30	0.411	72.8	Tan
0805		(028.0)	6.32	0.649	Recorded	0.81	20.82	0.32	0.423	12.8	↓
0807		—	6.29	0.650		0.26	21.36	0.32	0.421	-138.4	↓
0816		31-35	6.62	1.412		2.10	18.12	0.73	0.944	-120.3	~~Gray~~ DS
0818		(033.0)	6.90	1.480		0.78	19.88	0.75	0.972	-125.1	Tan
0820		—	6.87	1.504		0.25	21.40	0.76	0.980	-128.8	↓
0829		36-40	6.72	2.478		1.01	18.03	1.30	1.645	-118.8	Tan
0831		(038.0)	6.78	2.566		0.41	19.69	1.33	1.676	-122.2	↓
0833		—	6.76	2.586		0.20	20.97	1.34	1.686	-134.5	↓
0846		41-45	6.78	2.604		4.95	20.03	1.35	1.691	-125.9	Gray
0848		(043.0)	6.87	2.612		0.67	21.55	1.36	1.706	-128.1	↓
0850		—	6.85	2.641		0.27	22.34	1.37	1.723	-145.3	↓
0906		46-50	7.00	3.038		0.82	19.33	1.64	2.053	-157.0	Gray
0908		(048.0)	7.05	3.234		0.32	21.26	1.70	2.112	-158.6	↓
0910		—	7.06	3.285		0.20	21.59	1.73	2.148	-159.2	↓
	↓		decon 5 screens								

Notes:

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681-CRHE

Date: 10-20-2011 Location T is DPT0161

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0946	0161	26-30	6.61	1.712	Not Recorded	1.78	23.47	0.87	1.118	-30.0	Tan
0948		(028.0)	6.61	1.731		0.37	24.59	0.88	1.137	-58.3	↓
0950		—	6.62	1.769		0.21	25.1	0.89	1.150	-108.2	↓
				deion screens							
1022		31-35	6.85	1.745		4.16	22.40	0.89	1.145	-103.2	Gray
1024		(033.0)	6.84	1.778		0.91	23.24	0.90	1.162	-108.1	↓
1026		—	6.83	1.791		0.91	23.98	0.91	1.168	-147.0	↓
1036		36-40	6.93	2.155		5.32	22.99	1.15	1.464	-133.6	Tan
1038		(038.0)	6.73	2.278		0.21	24.63	1.17	1.488	-130.1	↓
1040		—	6.72	2.288		0.22	24.82	1.17	1.487	-128.9	↓
1051		41-45	6.99	2.654		0.56	23.86	1.39	1.749	-144.2	Gray
1053		(043.0)	7.00	2.699		0.19	24.50	1.39	1.751	-145.6	↓
1055		—	6.99	2.694		0.14	25.34	1.40	1.760	-146.8	↓
1110		46-50	6.94	1.755		1.42	21.97	0.93	2.085	-161.4	Gray
1112		(048.0)	6.99	3.406		0.32	23.47	1.81	2.253	-164.6	↓
1114	↓	—	7.02	3.594	↓	0.14	24.13	1.88	2.327	-167.5	↓

Notes:

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681/CR17E

Date: 10-20-2011 Location is DPT0262

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1137	0162	26-30	6.97	1.331	Not	4.48	24.34	0.66	0.856	-30.2	Tan
1139		(028.0)	6.91	1.311	Recorded	0.56	25.12	0.65	0.849	-50.8	↓
1141		—	6.85	1.300		0.20	25.52	0.64	0.840	-122.6	↓
1150		31-35	6.77	1.869		6.66	24.55	0.95	1.213	-111.4	Tan
1152		(033.0)	6.94	1.859		0.77	25.41	0.93	1.200	-119.2	↓
1154		—	6.96	1.848		0.25	25.68	0.94	1.210	-142.3	↓
				decon screens							
1245		36-40	6.98	2.078		5.02	23.44	1.08	1.376	-135.0	Gray
1247		(038.0)	6.91	2.122		0.72	24.33	1.09	1.382	-135.1	↓
1249		—	6.88	2.124		0.16	24.78	1.08	1.378	-136.1	↓
1300		41-45	6.99	2.354		1.37	24.72	1.23	1.558	-156.0	Clear
1302		(043.0)	6.92	2.437		1.25	25.88	1.26	1.598	-154.9	↓
1304		—	6.92	2.462		~~1.26~~ 0.12	25.93	1.27	1.602	-154.5	↓
1318		46-50	7.02	1.718		0.56	25.01	1.50	1.930	-154.8	Gray
1320		(048.0)	7.15	3.158		0.49	25.05	1.66	2.070	-159.5	↓
1322		—	7.18	3.196		0.12	25.89	1.68	2.115	~~-159.5~~ DS -173.4	↓
1335		51-55	7.08	3.350		1.52	24.91	1.87	2.330	-175.4	Tan
1337		(053.0)	7.20	3.645		~~1.92~~ 0.11 DS	25.22	1.94	2.405	+77.1	↓
1339		—	7.24	3.753		0.09	25.32	1.96	2.440	-178.6	↓
1357		61-65	7.08	3.953		1.38	25.83	2.13	2.633	-118.4	Tan
1359		(063.0)	7.14	4.097		0.18	26.05	2.18	2.680	-127.3	↓
1401	↓	—	7.17	4.151	↓	0.09	26.18	2.20	2.710	-175.2	↓

Notes:

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681 / CIRHE

Date: 10-20-2011 Location R is 0163

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1424	0163	26-30	7.10	0.737	Not	1.74	26.77	0.35	0.475	-24.1	Gray
1426		(028.0)	7.08	0.727	Recorded	0.24	26.82	0.35	0.469	-46.3	↓
1428		—	7.04	0.718		0.12	26.72	0.35	0.464	-133.7	↓
				Zelon screens							
1457		31-35	6.89	1.149		5.41	25.96	0.57	0.742	-124.2	Gray
1459		(033.0)	7.01	1.125		0.64	25.60	0.54	0.714	-133.2	↓
1501		—	7.01	1.094		0.17	26.90	0.54	0.708	~~-131.8~~ -164.6	↓
1511		36-40	7.02	1.077		2.60	25.87	1.04	1.338	-161.8	Gray
1513		(038.0)	6.96	2.117		1.33	26.70	1.10	1.411	-161.4	↓
1515		—	6.94	2.208		0.13	26.93	1.13	1.453	-161.3	↓
1527		41-45	6.99	2.484		0.33	26.20	1.31	1.663	-153.9	Gray
1529		(043.0)	7.03	2.604		0.11	26.44	1.35	1.710	-156.3	↓
1531		—	7.05	2.675		0.10	26.64	1.37	1.733	-158.1	↓
1543		46-50	7.03	3.293		0.35	25.23	1.76	2.196	-167.5	Tan
1545		(048.0)	7.08	3.444		0.18	26.11	1.83	2.300	-168.8	↓
1547		—	7.11	3.891		0.17	26.30	1.92	~~2.483~~	-169.5	↓

Notes:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681 - CRHE

Date: 10-21-2011 DPT0164 @ location U

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0800	0164	26-30	6.70	1.515	Not Recorded	8.72	16.96	0.78	1.012	9.2	Gray
0802		(028.0)	6.69	1.582		1.32	18.53	0.81	1.043	-53.5	↓
0804		—	6.70	1.623		0.31	19.87	0.83	1.066	-145.5	↓
0830		31-35	7.17	1.603		0.44	20.30	0.79	1.021	-180.6	Tan
0832		(033.0)	7.11	1.587		0.35	22.46	0.81	1.044	-180.4	↓
0834		—	7.09	1.613		0.35	22.96	0.82	1.053	-180.2	↓
0848		36-40	7.18	1.038		0.53	19.23	0.99	1.268	-169.5	Gray
0850		(038.0)	7.18	1.997		0.37	20.97	1.04	1.328	-169.6	↓
0852		—	7.14	2.067		0.24	22.58	1.05	1.348	-169.4	↓
0905		41-45	7.06	1.454		7.47	20.73	1.46	1.825	-119.2	Tan
0907		(043.0)	7.10	2.827		0.91	22.46	1.47	1.837	-126.7	↓
0909		—	7.11	2.841		0.20	23.48	1.48	1.858	-158.7	↓
0920		46-50	7.14	3.449		0.41	21.51	1.85	2.296	-162.8	Tan
0922		(048.0)	7.19	3.594		0.14	22.73	1.91	2.362	-165.8	↓
0924		—	7.20	3.720		0.11	23.86	1.94	2.418	-167.5	↓
0938		51-55	7.20	3.598		2.84	22.46	1.96	2.430	-168.2	Tan
0940		(053.0)	7.23	3.825		0.26	23.50	2.06	2.541	-169.4	↓
0942		—	7.21	4.034		0.13	24.33	2.11	2.620	-168.7	↓
				decon	screens						
1019		61-65	7.16	3.902		0.45	23.92	2.10	2.592	-164.2	Tan
1021		(063.0)	7.23	4.042		0.10	24.61	2.15	2.652	-167.4	↓
1023		—	7.25	4.152		0.10	25.98	2.19	2.693	-169.3	↓
	↓				↓						

Notes:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681-CRHE

Date: 10-21-2011 Location V is DPT0165

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1048	0165	26-30	7.23	1.804	Not	1.09	24.62	0.90	1.150	-132.4	Tan
1050		(028.0)	7.14	1.763	Recorded	0.31	25.61	0.89	1.149	-132.4	↓
1052		—	7.06	1.773		0.24	26.11	0.90	1.155	-131.7	↓
1100		31-35	7.22	1.923		0.53	24.61	0.97	1.239	-151.9	Gray
1102		(033.0)	7.14	1.911		0.20	25.60	0.97	1.246	-151.1	↓
1104		—	7.09	1.920		0.16	25.81	0.97	1.249	-150.4	↓
1115		36-40	7.20	2.086		1.35	24.97	1.08	1.378	-167.9	Tan
1117		(038.0)	7.14	2.154		1.10	25.91	1.11	1.421	-166.0	↓
1119		—	7.10	2.227		0.13	26.00	1.14	1.447	-163.0	↓
1130		41-45	7.13	2.534		0.33	26.30	1.32	1.666	-173.3	Gray
1132		(043.0)	7.17	2.590		0.18	26.69	1.34	1.702	-175.1	↓
1134		—	7.18	2.694		0.17	26.86	1.36	1.727	-176.5	↓
1144		46-50	7.18	3.615		1.33	25.21	1.93	2.401	-178.2	Gray
1146		(048.0)	7.20	3.771		0.33	25.77	2.01	2.500	-180.8	↓
1148		—	7.22	3.952		0.16	26.30	2.06	2.545	-182.2	↓

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM
DPT Location: CRHE - NASA

Project Number: 1-R1681
Date: 1/9/12 Sampler: A. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity mS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO mg/L	TIME
0166	28	0.50	7.22	2.652	OR	24.24	1.40	-216.8	1.756		0910
		0.25	7.26	2.655	↓	23.98	1.40	-220.3	1.760		0912
		0.25	7.24	2.648	↓	23.89	1.40	-212.6	1.759	0.32	0914
										SAMPLE	0915
	33	0.50	7.47	2.564	OR	24.32	2.08	-189.2	2.564	0.45	0933
		0.25	7.41	2.551	OR	24.18	2.07	-172.1	2.594	0.25	0935
		0.25	7.37	2.541	OR	23.99	2.06	-170.8	2.539	0.24	0937
										SAMPLE	0938
	38	NA →								SAMPLE	1000
	XXX	UNABLE TO TAKE READINGS DUE TO LOW VOLUME									
	43	0.50	7.49	4816	OR	24.06	2.63	-173.5	3.198	0.42	1016
		0.25	7.39	4847	OR	23.95	2.65	-161.4	3.215	0.25	1018
		0.25	7.37	4849	OR	23.93	2.66	-159.3	3.219	0.23	1020
										SAMPLE	1020
	48	0.25	7.56	4965	OR	23.81	2.73	-169.4	3.303	4.76	1035
		0.25	7.52	4995	OR	23.99	2.74	-174.0	3.314	0.98	1037
		0.25	7.46	5011	OR	23.96	2.75	-163.1	3.325	0.53	1039
↓										SAMPLE	1040
0167	28'	0.50	7.40	3164	OR	26.01	1.62	-226.0	2.034	1.30	1143
		0.25	7.26	3199	OR	25.41	1.65	-221.9	2.065	0.31	1145
		0.25	7.22	3198	OR	25.21	1.66	-206.0	2.070	0.21	1147
										SAMPLE	1148
	33'	0.50	7.36	3260	OR	25.18	1.71	-158.8	2.131	1.41	1159
		0.25	7.33	3269	OR	25.01	1.70	-150.5	2.121	0.46	1201
		0.25	7.31	3234	OR	24.89	1.69	-152.0	2.105	0.27	1203
										SAMPLE	1204
	38'	0.125	7.57	4257	OR	24.97	2.26	-169.7	2.766	0.72	1225
		0.125	7.56	4252	OR	24.98	2.26	-179.5	2.764	0.46	1227
		0.125	7.55	4253	OR	25.03	2.25	-158.8	2.763	0.30	1229
										SAMPLE	1230
	43'	0.50	7.49	4573	OR	24.44	2.45	-174.4	3.001	0.45	1245
		0.25	7.34	4627	OR	24.34	2.50	-136.1	3.050	0.18	1245
		0.25	7.29	4642	OR	24.29	2.51	-133.7	3.060	0.14	1247
										SAMPLE	1248
	48'	0.25	7.43	4944	OR	24.08	2.71	-127.9	3.293	0.65	1302
		0.125	7.36	5055	OR	24.00	2.77	-130.2	3357	0.25	1304
		0.125	7.33	5075	OR	23.92	2.79	-126.7	3.371	0.19	1306
↓										SAMPLE	1307

Note: Insert units if not provided on sheet

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DPT GEOCHEMICAL DATA FORM
DPT Location: CRANE - NASA

Project Number: FR1681
Date: 1/9/12 Sampler: A. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity µS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO mg/L	TIME
0168	28	0.50	7.42	2348	OR	25.07	1.20	-181.4	1.530	0.27	1350
|		0.25	7.37	2361	OR	24.95	1.21	-180.1	1.538	0.21	1352
		0.25	7.35	2361	OR	24.84	1.21	-178.7	1.540	0.18	1354
										SAMPLE	1355
	33	0.25	7.31	2892	OR	24.55	1.50	-184.5	1.877	0.59	1406
		0.25	7.30	2878	OR	24.90	1.49	-182.8	1.873	0.38	1408
		0.25	7.29	2874	OR	24.85	1.49	~~-187.3~~	1.873	0.28	1413
								-174.9		SAMPLE	1418
	38	0.50	7.30	4628	OR	24.77	2.48	-149.3	3.018	0.55	1426
		0.25	7.28	4613	OR	24.76	2.47	-146.8	3.012	0.42	1428
		0.25	7.27	4616	OR	24.80	2.47	-147.3	3.013	0.36	1430
										SAMPLE	1432
	43	0.25	7.75	3210	OR	24.78	1.69	-175.8	2.057	0.18	1445
		0125	7.65	4488	OR	25.30	2.42	-166.1	3.004	0.14	1449
		0125	7.63	4777	OR	25.13	2.57	-2554	3146	0.11	1449
										SAMPLE	1450
	48	0.25	7.49	5244	OR	24.21	2.87	-162.7	3.467	2.04	1507
		0.125	7.46	5264	OR	24.14	2.89	-157.6	3.482	0.75	1509
		0.125	7.44	5271	OR	24.12	2.89	-156.6	3.487	0.49	1510
▽										SAMPLE	1512
0169	28'	0.25	7.35	1067	OR	23.45	0.54	-180.3	0.713	0.51	~~1612~~ 1615
|		0.25	7.40	1062	OR	23.39	0.54	-194.3	0.911	0.40	1617
		0.25	7.41	1056	OR	23.34	0.54	-201.6	0.708	0.28	1619
										SAMPLE	1620
	33'	0.25	7.28	1284	OR	23.35	0.66	-217.6	0.861	0.35	1627
		0.25	7.31	1292	OR	23.26	0.66	-227.9	0.863	0.25	1629
		0.25	7.32	1285	OR	23.20	0.67	-232.5	0.867	0.20	1631
										SAMPLE	1632
	38	0.25	7.44	1588	OR	23.56	0.82	-189.4	1.063	0.46	1641
		0.25	7.45	1590	OR	23.51	0.83	-190.2	1.064	0.36	1643
		0.25	7.47	1588	OR	23.45	0.83	-190.7	1.064	0.27	1645
										SAMPLE	1646
	43'	0.25	7.57	2225	OR	22.21	1.21	-236.5	1.527	0.55	1659
		0.25	7.58	2223	OR	22.17	1.21	-244.4	1.527	0.40	1701
		0.25	7.58	2221	OR	22.15	1.21	-249.3	1.527	0.32	1703
										SAMPLE	1704
	48'	0.25	7.45	2461	OR	23.59	1.32	-208.9	1.692	4.38	1713
		0.25	7.55	2632	OR	23.26	1.41	-287.7	1.776	0.19	1715
		0.25	7.56	2641	OR	23.27	1.41	-290.8	1.775	0.15	1717
▽										SAMPLE	1718

Note: Insert units if not provided on sheet

DPT GEOCHEMICAL DATA FORM

DPT Location: NASA - CRITE

Project Number: FR1681

Date: 1/10/12 Sampler: A. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity µS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO (mg/L)	Comments TIME
0170	28	0.25	7.75	10,854 J	OR	20.27	6.85	-163.6	7.770	0.10	0818
		0.125	7.33	10,818	OR	20.13	6.84	-203.0	7.750	0.07	0823
		0.125	7.34	10,800	OR	20.08	6.95	-209.7	7.745	0.06	0822
										SAMPLE	0823
	33	0.25	7.11	13548 J	OR	21.52	8.57	-122.3	9.581	0.23	0831
		0.125	7.08	13516	OR	21.58	8.54	-115.6	9.502	0.37	0833
		0.125	7.05	13623	OR	21.76	8.44	-111.2	9.428	0.42	0835
										SAMPLE	0836
	38	0.25	7.21	1480	OR	21.07	7.21	-146.6	1.044	0.23	0849
		0.125	7.20	1504	OR	21.03	7.20	-149.3	1.058	0.25	0851
		0.125	7.20	1505	OR	20.99	7.20	-150.3	1.060	0.25	0853
										SAMPLE	0854
	43	0.125	7.58	934	OR	18.58	0.52 ~~7.58~~	-229.0	0.738	0.06	0910
		0.125	7.77	1192	OR	20.38	0.66	-233.7	0.851	0.03	0912
		0.125	7.77	1192	OR	20.32	0.66	-242.1	0.852	0.02	0914
										SAMPLE	0915
	48	0.125	7.52	1288	OR	20.73	0.71	-207.2	0.916	0.07	0927
		0.125	7.48	1346	OR	21.03	0.82	-210.1	0.958	0.05	0929
		0.125	7.47	1353	OR	21.09	0.84	-212.3	0.961	0.05	0931
										SAMPLE	0932
0171	28'	0.25	7.33	1127	OR	24.23	0.57	-148.5	0.743	0.11	1044
		0.125	7.24	1118	OR	24.04	0.56	-136.8	0.739	0.10	1046
		0.125	7.13	1115	OR	23.85	0.57	-122.0	0.742	0.26	1048
										SAMPLE	1049
	33'	0.25	7.33	1213	OR	24.67	0.61	-153.4	0.793	0.43	1100
		0.125	7.27	1205	OR	24.54	0.60	-143.4	0.788	0.33	1102
		0.125	7.21	1190	OR	24.26	0.60	-132.4	0.784	0.26	1104
										SAMPLE	1105
	38'	0.25	7.12	1454	OR	25.38	0.72	-158.8	0.940	0.32	1116
		0.125	7.11	1475	OR	25.67	0.73	-163.7	0.947	0.23	1118
		0.25	7.39	1514	OR	25.77	0.75	-173.0	0.972	0.15	1120
										SAMPLE	1121
	43'	0.125	7.94	865	OR	25.25	0.42	-238.1	0.561	0.20	1132
		0.125	7.86	998	OR	25.59	0.59	-248.9	0.794	0.14	1135
		0.125	7.81	1310	OR	25.32	0.65	-249.8	0.845	0.11	1136
	48									SAMPLE	1137
		0.125	7.50	1797	OR	24.41	0.93	-188.8	1.207	0.36	1150
		0.125	7.48	1862	OR	24.52	0.96	-193.6	1.225	0.23	1152
		0.125	7.48	1911	OR	24.60	0.98	-207.3	1.252	0.11	1154
										SAMPLE	1155

OR = OUT OF RANGE

J = RECALIBRATED VALUE = ESTIMATED VALUE

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: NASA - CRHE

Project Number: FR1681

Date: 1/10/12 Sampler: A. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity mS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO mg/L	TIME
0172	28'	0.25	7.37	870	OR	24.88	0.42	-150.8	0.562	0.50	1341
		0.125	7.23	844	OR	24.52	0.42	-140.6	0.552	0.37	1343
		0.125	6.98	840	OR	24.43	0.42	-123.3	0.552	0.23	1345
	33'	0.25	7.29	1610	OR	25.84	0.80	-169.3	1.032	SAMPLE	1346
									↳	0.26	1357
		0.125	7.31	1614	OR	25.82	0.80	-173.5	1.033	0.20	1359
		0.125	7.36	1619	OR	25.79	0.80	-161.0	1.037	0.11	1401
										SAMPLE	1402
	38'	0.25	7.39	1651	OR	24.86	0.84	-152.2	1.080	0.31	1413
		0.25	7.36	1647	OR	24.44	0.84	-141.1	1.080	0.22	1415
		0.25	7.29	1636	OR	24.29	0.84	-134.8	1.078	0.15	1417
										SAMPLE	1418
	43'	0.25	7.42	1703	OR	24.91	0.86	-165.1	1.118	0.32	1431
		0.125	7.40	1724	OR	24.59	0.88	-157.8	1.130	0.21	1433
		0.125	7.37	1723	OR	24.36	0.88	-151.8	1.135	0.16	1435
										SAMPLE	1436
	48'	0.25	7.31	2170	OR	23.88	1.14	-167.7	1.458	0.26	1453
		0.125	7.29	2197	OR	23.74	1.15	-166.1	1.465	0.23	1457
		0.125	7.31	2211	OR	23.60	1.17	-158.9	1.478	0.13	1459
										SAMPLE	1500
	53'	0.25	7.54	3278	OR	23.77	1.76	-159.1	2.190	0.26	1521
		0.125	7.52	3308	OR	23.69	1.78	-183.0	2.209	0.18	1523
		0.125	7.50	3316	OR	23.65	1.79	-175.6	2.216	0.15	1525
										SAMPLE	1526
	63'	0.25	7.52	3797	OR	24.01	1.84	-182.5	2.310	0.26	1545
		0.125	7.55	3607	OR	23.99	1.95	-195.9	2.423	0.09	1547
		0.125	7.54	3712	OR	23.96	1.97	-201.5	2.446	0.08	1549
										SAMPLE	1550
0173	28'	0.125	7.58	1536	OR	24.02	0.78	-170.0	1.010	0.40	1630
		0.125	7.57	1520	OR	23.95	0.78	-188.4	1.009	0.10	1632
		0.125	7.57	1521	OR	23.93	0.78	-195.0	~~1.009~~ 1.007	0.06	1634
										SAMPLE	1635
	33'	0.25	7.31	2204	OR	24.24	1.15	-156.0	1.460	0.24	1642
		0.25	7.29	2204	OR	23.95	1.15	-170.8	1.455	0.25	1644
		0.25	7.25	2178	OR	23.61	1.15	-143.5	1.453	0.25	1646
										SAMPLE	1647
	38'	0.25	7.31	2320	OR	24.40	1.21	-164.3	1.541	0.76	1700
		0.125	7.30	2355	OR	24.21	1.23	-156.7	1.557	0.43	1702
		0.125	7.23	2362	OR	23.84	1.24	-143.3	1.564	0.17	1704
										SAMPLE	1705

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM
DPT Location: NASA - CRHE

Project Number: FR1681
Date: 1/11/12 Sampler: A. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity µS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO mg/L	TIME
0173	43'	0.25	7.18	2378	OR	23.25	1.28	-149.5	1.630	0.14	0740
		0.125	7.27	2446	OR	23.11	1.31	-160.5	1.651	0.09	0742
		0.125	7.24	2420	OR	22.68	1.31	-162.8	1.646	0.06	0744
										SAMPLE	0745
	48'	0.25	7.51	2946	OR	22.80	1.62	-164.5	2.022	0.17	0800
		0.125	7.41	3006	OR	22.75	1.64	-158.7	2.041	0.17	0802
		0.125	7.42	2986	OR	22.64	1.63	-168.0	2.034	0.21	0804
										SAMPLE	0805
	53'	0.25	7.48	3391	OR	22.43	1.89	-169.2	2.336	0.15	0820
		0.125	7.51	3470	OR	22.46	1.93	-174.8	2.376	0.10	0822
		0.125	7.51	3456	OR	22.37	1.94	-176.7	2.358	0.09	0824
										SAMPLE	0825
	63'	0.25	7.60	3675	OR	22.73	2.04	-179.8	2.522	0.11	0845
		0.125	7.60	3767	OR	22.74	2.09	-181.5	2.594	0.07	0847
		0.125	7.58	3823	OR	22.67	2.12	-179.1	2.604	0.05	0849
										SAMPLE	0850
0174	28'	0.25	7.21	1808	OR	23.52	0.94	-100.5	1.204	0.71	0758
		0.25	7.15	1789	OR	23.38	0.93	-97.2	1.197	0.42	1000
		0.25	7.08	1778	OR	23.23	0.93	-97.9	1.197	0.31	1002
										SAMPLE	1003
	33'	0.25	7.38	1764	OR	23.51	0.92	-152.1	1.187	0.48	1013
		0.125	7.40	1806	OR	23.56	0.94	-165.3	1.211	0.34	1015
		0.125	7.41	1832	OR	23.44	0.96	-175.7	1.228	0.17	1017
										SAMPLE	1018
	38	0.25	7.39	1952	OR	24.03	1.01	-168.2	1.299	0.26	1029
		0.125	7.34	1963	OR	23.91	1.02	-162.2	1.303	0.18	1031
		0.125	7.27	1955	OR	23.55	1.02	-152.5	1.308	0.13	1033
										SAMPLE	1034
	43'	0.25	7.40	7050	OR	23.57	1.09	-163.7	1.352	0.45	1048
		0.125	7.39	2159	OR	23.82	1.14	-167.6	1.453	0.25	1050
		0.125	7.38	2192	OR	23.58	1.16	-170.2	1.466	0.15	1052
										SAMPLE	1053
	48'	0.25	7.47	2331	OR	23.49	1.22	-157.3	1.519	0.65	1104
		0.125	7.52	2056	OR	24.14	1.06	-180.6	1.354	0.26	1106
		0.125	7.67	2031	OR	23.50	1.07	-224.1	1.359	0.09	1108
										SAMPLE	1109
0175	28'	0.25	7.28	1125	OR	23.59	0.57	-96.7	0.750	0.80	1157
		0.125	7.23	1119	OR	23.49	0.44	-107.8	0.745	0.37	1159
		0.125	7.20	1115	OR	23.35	0.22	-115.0	0.748	0.21	1201
										SAMPLE	1202

NOTES
HARD DRILLING

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DPT GEOCHEMICAL DATA FORM
DPT Location: CRAE - NAIA

Project Number: ER1681
Date: 1/11/12 Sampler: R. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity µS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO (mg/L)	Comments TIME
0175	33'	0.25	7.24	1159	OR	24.38	0.58	-133.8	0.763	0.47	1243
		0.125	7.30	1152	OR	24.26	0.58	-145.4	0.759	0.32	1245
		0.125	7.35	1145	OR	23.92	0.58	-154.9	0.760	0.14	1247
										SAMPLE	1248
	38'	0.25	7.34	1106	OR	24.76	0.55	-143.0	0.726	0.42	1259
		0.125	7.33	1108	OR	24.48	0.55	-140.9	0.727	0.30	1301
		0.125	7.29	1096	OR	24.15	0.55	-134.3	0.724	0.14	1303
										SAMPLE	1304
	43'	0.25	7.54	1234	OR	24.81	0.62	-165.6	0.809	0.37	1315
		0.125	7.56	1247	OR	24.72	0.62	-161.1	0.815	0.30	1317
		0.125	7.44	1232	OR	24.32	0.62	-174.0	0.813	0.12	1319
										SAMPLE	1320
	48	0.125	7.70	1253	OR	23.74	0.64	-189.0	0.832	0.20	1337
		0.125	7.75	1246	OR	2373	0.64	-200.3	0.829	0.12	1339
		0.125	7.81	1237	OR	23.64	0.63	-217.4	0.825	~~SAMPLE~~ 0.04	1342
										SAMPLE	1342
0176	28'	0.125	7.27	804	OR	23.48	0.41	-135.1	0.538	0.65	1432
		0.125	7.30	800	OR	23.47	0.40	-148.8	0.535	0.40	1434
		0.125	7.32	800	OR	23.45	0.40	-160.8	0.536	0.19	1436
										SAMPLE	1437
	33'	0.125	7.35	890	OR	22.81	0.46	-154.3	0.604	0.23	1453
		0.125	7.38	890	OR	22.78	0.46	-167.2	0.604	0.13	1452
		0.125	7.39	890	OR	22.76	0.46	-175.7	0.604	0.10	1454
										SAMPLE	1455
	38'	0.25	7.16	1320	OR	24.70	0.66	-110.1	0.859	0.56	1507
		0.125	7.10	1303	OR	24.58	0.65	-113.4	0.853	0.46	1509
		0.125	7.05	1301	OR	24.35	0.66	-112.4	0.857	0.26	1511
										SAMPLE	1512
	43'	0.25	7.32	1415	OR	25.38	0.71	-162.2	0.930	0.85	1527
		0.125	7.29	1497	OR	25.15	0.75	-162.1	0.996	0.31	1529
		0.125	7.25	1544	OR	24.75	0.78	-161.7	0.998	0.18	1531
										SAMPLE	1532
	48'	0.125	7.30	1563	OR	24.40	0.80	-143.9	1.039	0.37	1550
		0.125	7.26	1608	OR	24.30	0.82	-142.4	1.060	0.23	1552
		0.125	7.20	1608	OR	23.82	0.83	-127.8	1.069	0.10	1554
										SAMPLE	1555

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DPT GEOCHEMICAL DATA FORM
DPT Location: CR4E - MASA

Project Number: PR1681
Date: 1/12/12 Sampler: A. RIVERA

DPT Name	Sample Depth	Purg Vol gal	pH std units	Conductivity µS/cm	Turbidity NTUs	Temp deg. C	Salinity %	ORP mv	TDS g/L	Comments DO(mg/L) TIME
0177	26'	0.25	6.71	1318	OR	22.62	0.69	-15.0	0.857	0.13 0821
		0.125	6.84	1316	OR	22.70	0.69	-46.5	0.858	0.11 0823
		0.125	6.95	1312	OR	22.46	0.69	-79.7	0.857	0.05 0825
	33'	0.25	7.42	1556	OR	21.92	0.82	-153.7	1.002	SAMPLE 0826
		0.125	7.41	1596	OR	23.14	0.83	-154.0	1.034	0.41
		0.125	7.35	1574	OR	22.70	0.85	-150.2	1.070	0.33
									↳	0.19
										SAMPLE 0836
	38'	0.25	7.29	1881	OR	23.53	0.98	-167.5	1.253	0.40
		0.125	7.24	1873	OR	23.60	0.98	-162.2	1.247	0.41
		0.025	7.18	1865	OR	23.26	0.93	-158.8	1.235	0.20
										SAMPLE 0918
	43'	0.25	7.42	2079	OR	23.67	1.09	-143.5	1.388	0.20 0927
		0.125	7.40	2084	OR	23.94	1.09	-142.4	1.388	0.14 0931
		0.125	7.38	2081	OR	23.77	1.09	-139.2	1.386	0.14 0933
										SAMPLE 0934
	48'	0.25	7.49	2507	OR	23.80	1.33	-136.6	1.692	0.73 0947
		0.25	7.46	2589	OR	23.86	1.37	-142.8	1.720	0.26 0949
		0.25	7.46	2631	OR	23.90	1.40	-144.1	1.732	0.19 0951
										SAMPLE 0952
0178	28'	0.25	7.20	1413	OR	25.32	0.70	-89.5	0.912	0.11 1105
		0.125	7.15	1406	OR	25.17	0.70	-91.4	0.910	0.09 1107
		0.125	7.15	1402	OR	24.54	0.71	-96.5	0.919	0.07 1109
										SAMPLE 1110
	33'	0.125	9.48	1488	OR	24.87	0.76	-125.3	0.956	0.10 1124
		0.125	7.48	1595	OR	25.10	0.80	-127.4	1.039	0.03 1126
		0.125	7.55	1598	OR	24.85	0.81	-128.3	1.045	0.01 1128
										SAMPLE 1129
	38'	0.25	7.34	2020	OR	25.15	1.03	-113.5	1.313	0.10 1140
		0.25	7.27	2022	OR	24.91	1.03	-109.0	1.316	0.09 1142
		0.25	7.23	2021	OR	24.87	1.03	-107.9	1.317	0.03 1144
										SAMPLE 1145
	43	0.25	7.49	2802	OR	25.62	1.44	-159.3	1.810	0.05 1155
		0.25	7.50	2833	OR	25.58	1.45	-161.8	1.826	0.05 1157
		0.25	7.50	2861	OR	25.48	1.47	-164.1	1.844	0.02 1159
										SAMPLE 1200
	48'	0.25	7.67	2760	OR	25.28	1.42	-164.6	1.796	0.10 1213
		0.125	7.64	2924	OR	25.41	1.51	-162.0	1.906	0.04 1215
		0.125	7.61	2955	OR	25.38	1.54	-159.4	1.940	0.04 1217
										SAMPLE 1218

Note: Insert units if not provided on sheet

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0159

Project Number: FF1681
Date: 2-7-12 CS

DPT Location	Sample Depth	pH std units	Conductivity M S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity (PT %)	TDS g/L	ORP mV
DPT0159									
09:20	8-12	7.24	808	—	5.53 6.79	22.26	0.39	0.511	-104.3
09:21	010.0	7.20	782	—	4.14	22.14	0.38	0.504	-100.1
09:22		7.16	772	—	4.05	22.08	0.38	0.499	-97.8
		Sampled @ 09:23 CS							
DPT0159	12-16 09:33	7.44	952	—	4.13	23.14	0.47	0.615	-130.8
014.0	09:34	7.42	942	—	4.84	23.20	0.46	0.608	-126.2
	09:35	7.40	930	—	5.03	23.21	0.46	0.602	-122.7
		Sampled @ 09:36 CS							
DPT0159	16-20	7.41	1,162	—	5.12	24.18	0.58	0.760	-118.9
018.0	09:40 09:41 ✓	7.38	1,172	—	5.00	24.10	0.58	0.763	-111.1
	09:42	7.35	1,174	—	4.90	23.99	0.58	0.763	-104.3
		Sampled @ 09:44 CS							
DPT0159	21-25	7.51	1,207	—	4.42	24.04	0.60	0.790	-134.4
023.0	09:53	7.47	1,220	—	3.01	24.15	0.61	0.796	-132.7
	09:54	7.42	1,226	—	2.71	24.10	0.61	0.797	-125.0
	09:55								
		Sampled @	09:56	CS					

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0161

Project Number: FR1681 CS

Date: 2-7-12

DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ppt % CS	TDS g/L	ORP mV
DPT0161	10:27	7.41	897	—	3.70	25.35	0.44	0.581	-138.7
8-12	10:28	7.41	893	—	2.74	25.35	0.44	0.577	-141.0
010.0	10:29	7.41	884	—	2.61	25.33	0.43	0.571	-139.8
		Sampled @ 10:30 CS							
DPT0161	10:33	7.41	1,572	—	6.01	26.28	0.79	1.019	-148.2
12-16	10:34	7.37	1,562	—	4.12	26.42	0.78	1.010	-143.1
014.0	10:35	7.34	1,550	—	3.96	2636	0.77	1.004	-134.4
		Sampled @ 10:36 CS							
DPT0161	10:44	7.45	1,693	—	6.20	25.81	0.85	1.101	-1468
16-20	10:45	7.44	1,698	—	2.84	26.28	0.86	1108	-143.1
018.0	10:46	7.38	1,706	—	2.26	26.28	0.86	1.111	-138.6
		Sampled @ 10:47 CS							
DPT0161	10:52	7.44	1,738	—	3.60	26.23	0.88	1.131	-133.1
21-25	10:53	7.42	1,740	—	3.12	26.27	0.88	1.132	-130.6
023.0	10:54	7.37	1,742	—	2.98	26.16	0.88	1.132	-122.8
		Sampled @ 10:55 CS							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0167

Project Number: F121681
Date: 2-7-12 CS

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ppt % ⓒ	TDS g/L	ORP mV
DPT0167	13:17	7.82	773	—	8.42	23.69	0.37	0.497	-164.7
8-12	13:18	7.84	754	—	6.97	23.59	0.37	0.487	-160.3
010.0	13:19	7.74	746	—	6.51	23.51	0.36	0.483	-162.7
		Sampled @ 13:20 CS							
DPT0167	13:26	7.70	1,439	—	3.83	24.11	0.73	0.943	-148.4
12-16	13:27	7.64	1,454	—	3.50	24.03	0.73	0.947	-137.5
014.0	13:28	7.60	1,457	—	3.76	23.89	0.73	0.946	-128.4
		Sampled @ 13:29 CS							
DPT0167	13:36	7.65	1,647	—	3.59	24.27	0.83	1.065	-1462
16-20	13:37	7.60	1,630	—	3.28	24.19	0.82	1.054	-128.7
018.0	13:38	7.56	1,616	—	3.27	24.08	0.81	1.046	-117.0
		Sampled @ 13:39 CS							
DPT0167	13:49	7.46	2,438	—	2.80	24.10	1.26	1.594	-113.5
21-25	13:50	7.40	2,466	—	2.84	24.06	1.27	1.608	-1001
023.0	13:51	7.36	2,477	—	2.87	23.99	1.28	1.612	-93.7
		Sampled 13:52 CS							

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0179

Project Number: FR1681 CS

Date: 02-07-12

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity (PT ~~X~~ CS)	TDS g/L	ORP mV
DPT0179	14:24	7.60	1,650	—	3.27	22.40	0.83	1.074	-105.1
8-12	14:25	7.60	1,652	—	3.36	22.41	0.83	1.074	-104.2
010.0	14:26	7.60	1,651	—	3.45	22.43	0.83	1.073	-103.2
	Sampled @		14:27	CS					
(CS) DPT0179	14:37	7.71	1,572	—	5.40	22.32	0.79	1.022	-114.2
16-20 ~~12-16~~	14:38	7.71	1,574	—	5.28	22.43	0.80	1.036	-111.7
018.0 ~~014.0~~	14:39	7.70	1,603	—	5.29	22.55	0.81	1.047	-117.0
	Sampled @		14:40	CS			- -		
DPT0179	14:50	7.54	2,284	—	1.96	24.11	1.20	1.519	-126.0
26-30	14:51	7.43	2,351	—	2.67	23.76	1.16	1.504	-99.7
028.0	14:52	7.36	2,320	—	3.32	24.22	1.20	1.518	-86.9
	Sampled @		14:53	CS	1.96	24.11	1.20	1.519	-126.0 (CS)
DPT0179	15:08	7.53	2,286	—	4.43	24.63	1.18	1.494	-133.8
31-35	15:09	7.48	2,312	—	3.56	24.80	1.19	1.510	-131.6
033.0	15:10	7.45	2,327	—	3.46	24.87	1.19	1.514	-124.2
		Sampled @	15:11	CS					
DPT0179	15:25	7.61	2,566	—	1.56	24.37	1.33	1.674	-147.5
36-40	15:26	7.55	2,585	—	1.20	24.54	1.34	1.689	-139.7
038.0	15:27	7.50	2,604	—	1.11	24.69	1.34	1.696	-132.9
		Sampled @	15:28	CS					
DPT0179	15:39	7.58	3,153	—	3.07	23.75	1.63	2.030	-135.6
41-45	15:40	7.54	3,104	—	~~CS~~ 1.25	24.36	1.61	2.005	-126.9
(CS) ~~X~~ 043.0	15:41	(CS) ~~Sampled @ 15:42 CS~~			1.12	24.50	1.59	1.986	-116.1
		7.48	3,070	—	↗				
		Sampled @	15:42	CS					
					* note: tubing lost			water on way out	
					of DPT rod, placed				

tubing back into rod to pump more water for sample.

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT 0179

Project Number: FR1681

Date: 2-7-12 CS

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity mg/L %	TDS g/L	ORP mV
DPT0179	16:02	7.42	3,919	—	2.74	24.16	2.05	2.536	-128.7
46-50	16:03	7.47	3,924	-	1,54	24.24	2.08	2.554	-127.2
048.0	16:04	7.45	3,930	—	1.73	24.28	2.08	2.555	-124.9
		Sample @ 16:05 CS							

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM
DPT Location: DPT 0180

Project Number: F12681
Date: 2-7-12 to 2-8-12 CS

DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ppt %	TDS g/L	ORP mV
DPT0180	16:29	7.71	909	—	2.82	23.31	0.45	0.593	-168.4
8-12	16:30	7.71	914	—	2.24	23.26	0.45	0.595	-173.0
010.0	16:31	7.71	915	—	2.13	23.19	0.45	0.594	-174.3
	Sampled @ 16:32 CS								
2-7-12									
2-8-12									
DPT0180	07:59	7.21	747	—	ADO	22.42	0.37	0.487	-182.7
16-20	08:00	7.01	749	—	reading	22.55	0.36	0.485	-173.5
018.0	08:01	6.99	743	—	abnormal, recalibrate CS	22.70	0.36	0.482	-164.0
	Sampled @ 08:02 CS								
DPT0180	08:13	7.14	978	—	5.77	21.83	0.51	0.664	-171.9
26-30	08:14	7.16	1,023	—	4.67	21.72	0.51	0.668	-173.5
028.0	08:15	7.17	1,029	—	4.06	21.68	0.51	0.670	-177.6
	Sampled @ 08:16 CS								
DPT0180	08:33	7.14	1,393	—	3.52	22.59	0.71	0.917	-169.1
31-35	08:34	7.09	1,421	—	3.08	23.06	0.71	0.924	-155.3
033.0	08:35	7.05	1,418	—	3.02	23.31	0.71	0.919	-150.8
		Sampled @ 08:36 CS							
DPT0180	08:51	7.11	1,612	—	5.88	22.55	0.83	1.080	-153.19
36-40	08:52	7.05	1,882	—	4.33	23.01	0.86	1.103	-144.0
038.0	08:53		1,702	—	4.01	23.25	0.86	1.113	-133.2
		Sampled @ 08:54 CS							
DPT0180	09:11	7.30	2,153	—	4.64	23.18	1.11	1.407	-183.3
41-45	09:12	7.28	2,173	—	4.40	23.31	1.12	1.424	-182.9
043.0	09:13	7.22	2,197	—	4.48	23.40	1.13	1.432	-181.4
		Sampled @ 09:14			CS				

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM

DPT Location: DPT0180

Project Number: F21681

Date: 2-8-12 CS

DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ppt %S	TDS g/L	ORP mV
DPT0180	09:27	7.32	3,150	—	4.94	23.11	1.67	2.081	+186.2
46-50	09:28	7.29	3,238	—	4.16	23.25	1.71	2.130	+180.2
048.0	09:29	7.26	3,297	—	4.18	23.34	1.74	2.160	+176.5
		Sample @ 09:30 CS							

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0181

Project Number: FR1681 CS
Date: 2-8-12

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity (PPT %S)	TDS g/L	ORP mV
DPT0181	10:50	6.79	836	—	3.52	21.67	0.41	0.540	-111.3
8-12	10:51	6.71	926	—	3.34	21.54	0.40	0.533	-105.1
010.0	10:52	6.66	817	—	3.30	21.42	0.40	0.528	-100.2
		Sampled @ 10:53 CS							
DPT0181	11:02	6.69	932	—	3.93	22.71	0.46	0.600	-124.6
16-20	11:03	6.68	915	—	~~6.68~~ 3.36	22.76	0.44	0.587	-116.7
018.0	11:04	6.66	898	—	3.34	22.70	0.44	0.580	-108.3
		Sampled @ 11:05 CS							
DPT0181	11:16	7.09	1,199	—	6.10	22.63	0.61	0.795	-171.6
26-30	11:17	7.11	1,241	—	3.59	22.72	0.62	0.815	-174.3
028.0	11:18	7.11	1,262	—	2.98	22.71	0.63	0.827	-175.4
		Sampled @ 11:19 CS							
DPT0181	11:32	6.89	723	—	4.08	22.63	0.36	0.484	-202.4
36-40	11:33	7.22	748	—	2.55	22.74	0.36	0.485	-203.7
038.0	11:34	7.23	745	—	2.50	22.85	0.36	0.482	-189.7
		Sampled @ 11:35 CS							
DPT0181	11:51	7.16	817	—	2.16	22.48	0.40	0.533	-180.7
41-45	11:52	7.18	821	—	1.78	22.49	0.40	0.534	-186.4
043.0	11:53	7.19	823	—	1.66	22.49	0.40	0.535	-189.0
		Sampled @ 11:54 CS							
DPT0181	12:09	7.14	7,622	—	2.51	22.52	1.37	1.723	-197.9
46-50	12:10	7.26	2,654	—	1.61	22.57	1.37	1.720	-199.2
048.0	12:11	7.26	2,629	—	1.45	22.67	1.33	1.670	-202.5
		Sampled @ 12:12 CS							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0182

Project Number: FR1681 CS
Date: 2-8-12

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity pt % (S)	TDS g/L	ORP mV
DPT0182	14:04	6.16	931	–	2.55	21.93	0.45	0.595	-94.1
8-12	14:05	6.05	904	–	1.92	21.71	0.44	0.573	-87.1
010.0	14:06	5.96	886	–	1.67	21.54	0.43	0.561	-85.3
		Sampled @ 14:07 CS							
DPT0182	14:13	6.19	901	–	1.61	21.90	0.44	0.586	-93.8
16-20	14:14	6.27	907	–	1.59	22.10	0.45	0.592	-97.8
018.0	14:15	6.29	917	–	1.59	22.11	0.46	0.602	-101.0
		Sampled @ 14:16 CS							
DPT0182	14:20	6.86	676	–	3.49	23.90	0.35	0.463	-162.8
26-30	14:21	6.91	717	–	1.72	23.91	0.35	0.469	-161.1
028.0	14:22	6.89	722	–	1.37	23.76	0.35	0.470	-154.9
		Sampled @ 14:23 CS							
DPT0182	14:36	6.79	710	–	2.70	23.58	0.35	0.465	-166.6
36-40	14:37	6.82	717	–	1.63	23.73	0.35	0.467	-164.2
038.0	14:38	6.77	718	–	1.37	23.72	0.35	0.466	-158.4
		Sampled @ 14:39 CS							
DPT0182	15:02	6.67	716	–	2.59	23.01	0.35	0.468	-147.0
41-45	15:03	6.57	722	–	1.89	23.14	0.35	0.470	-148.1
043.0	15:04	6.66	723	–	1.72	23.14	0.35	0.469	-144.1
		Sampled @ 1505 CS							
DPT0182	15:22	6.80	789	–	1.22	22.99	0.38	0.507	-149.7
46-50	15:23	6.76	774	–	1.22	23.00	0.38	0.500	-142.7
048.0	15:24	6.72	767	–	1.23	22.99	0.37	0.497	-139.9
		Sampled @ 15:25 CS							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0183

Project Number: FR1681
Date: 2-8-12 to 2-9-12 (S)

DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ppt (S)	TDS g/L	ORP mV
DPT0183	16:42	6.65	820	–	8.71	20.93	0.40	0.530	-82.7
8-12	16:43	6.67	815	–	5.79	20.91	0.40	0.530	-81.2
010.0	16:44	6.68	815	–	5.48	20.89	0.40	0.529	-80.2
	Sampled @		16:45	CS					
2-8-12									
DPT0183	07:16	7.12	700	–	4.87	21.59	0.34	0.454	-127.4
2-9-12 1620	07:17	7.12	697	–	4.45	21.64	0.34	0.452	-124.4
018.0	07:18	7.12	695	–	4.15	21.66	0.34	0.451	-122.2
	Sampled @		07:19	CS					
DPT0183	07:29	7.10	697	–	2.29	21.08	0.34	0.455	-123.6
2630	07:30	7.08	698	–	1.99	21.41	0.34	0.453	-123.4
028.0	07:31	7.06	694	–	1.90	21.63	0.34	0.450	-121.1
	Sampled @		07:32	CS					
DPT0183	07:47	7.08	750	–	1.90	21.65	0.37	0.485	-140.4
3640	07:48	7.06	739	–	1.41	22.00	0.36	0.476	-133.1
038.0	07:49	7.03	729	–	1.35	22.14	0.35	0.471	-126.2
	Sampled @		07:50	CS					
DPT0183	08:04	7.11	719	–	4.36	22.08	0.35	0.465	-136.1
4145	08:05	7.12	714	–	4.09	22.29	0.35	0.461	-130.2
043.0	08:06	7.10	707	–	1.19	22.40	0.34	0.457	-122.4
	Sampled @		08:07	CS					
DPT0183	08:30	7.21	1,374	–	~~1.44~~ 1.34 (S)	21.47	0.68	0.874	-149.4
4650	08:31	7.23	1,313	–	1.04	21.96	0.64	0.827	-147.6
048.0	08:32	7.21	1,217	–	1.14	22.11	0.59	0.768	-143.9
	Sampled @		08:33	CS					

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM
DPT Location: DPT0177

Project Number: FR1681
Date: 2-9-12 CS

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity pt %	TDS g/L	ORP mV
DPT0177	11:03	7.42	844	—	3.32	22.81	0.41	0.547	-149.5
8-12	11:04	7.37	840	—	2.78	22.89	0.41	0.545	-152.2
010.0	11:05	7.41	838	—	2.68	22.89	0.41	0.544	-153.2
		Sampled @ 11:07 CS							
DPT0177	11:15	7.17	1,277	—	2.12	23.48	0.64	0.828	-135.8
12-16	11:16	7.14	1,267	—	1.27	23.66	0.62	0.813	-133.1
014.0	11:17	7.12	1,238	—	1.14	23.67	0.61	0.797	-129.1
		Sampled @ 11:18 CS							
DPT0177	11:24	7.22	1,393	—	6.58	24.39	0.70	0.904	-141.7
16-20	11:25	7.17	1,390	—	5.61	24.26	0.69	0.900	-131.7
018.0	11:26	7.11	1,383	—	4.99	24.14	0.69	0.897	-126.8
		Sampled @ 11:27 CS							
DPT0177	11:33	7.15	1,718	—	6.34	24.12	0.87	1.119	-139.0
21-25	11:34	7.14	1,727	—	4.19	24.35	0.88	1.130	-139.1
023.0	11:35	7.13	1,745	—	3.32	24.38	0.88	1.137	-134.3
		Sampled @ 11:36 CS							

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM

DPT Location: A - DPT 0184

Project Number: FR1681

Date: 2-9-12 CS

DPT Location	Sample Depth	pH std units	Conductivity µS/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ~~pct~~ % (S)	TDS g/L	ORP mV
DPT0184	~~A~~	13:33	7.16	717	—	2.37	24.77	0.35	0.462	-116.2
	8-12	13:34	7.11	706	—	2.10	24.60	0.34	0.455	-109.5
	010.0	13:35	7.08	696	—	1.92	24.48	0.34	0.449	-104.6
		Sampled @	13:36	CS						
DPT0184	~~A~~	13:43	7.22	1,594	—	0.76	26.70	0.80	1.037	-149.5
	16-20	13:44	7.22	1,597	—	0.79	26.65	0.80	1.039	-147.8
	018.0	13:45	7.21	1,599	—	0.73	26.57	0.80	1.039	-147.5
		Sampled @	13:46	CS						
DPT0184	~~A~~	13:53	7.24	1,633	—	1.34	25.96	0.83	1.078	-126.3
	26-30	13:54	7.15	1,662	—	0.71	26.02	0.84	1.082	-123.2
	028.0	13:55		1,666	—	0.66	26.01	0.84	1.083	-124.4
		Sampled @	13:56	CS						
DPT0184	~~A~~	14:10	7.22	1,627	—	3.34	25.64	0.82	1.067	-154.7
	31-35	14:11	7.17	1,650	—	2.63	25.86	0.83	1.079	-150.0
	033.0	14:12	7.17	1,664	—	2.35	25.92	0.84	1.085	-144.7
		Sampled @	14:13	CS						
DPT0184	~~A~~	14:27	7.29	2,122	—	3.03	26.43	1.09	1.392	-162.8
	36-40	14:28	7.29	2,149	—	1.99	26.67	1.10	1.399	-163.2
	038.0	14:29	7.29	2,155	—	1.80	26.71	1.10	1.401	-160.7
		Sampled @	14:30	CS						
DPT0184	~~A~~	14:43	7.38	3,160	—	2.54	26.67	1.64	2.055	-174.3
	41-45	14:44	7.40	3,167	—	1.74	26.67	1.65	2.062	-173.4
	043.0	14:45	7.39	3,178	—	1.57	26.59	1.65	2.069	-172.3
		Sampled @	14:46	CS						

Note: Insert units if not provided on sheet.

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DPT GEOCHEMICAL DATA FORM
DPT Location:

Project Number: F21681
Date: 2-9-12 CS

DPT0484

DPT Location	Sample Depth	pH std units	Conductivity µ S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity ppt % (S)	TDS g/L	ORP mV
A	14:57	7.39	3,749	—	1.93	25.99	2.00	2.476	-184.7
46-50	14:58	7.40	3,845	—	1.59	25.94	2.04	2,520	-185.4
048.0	14:59	7.39	3,901	—	1.52	25.85	2.07	2.551	-182.4
	Sampled @ 15:00			CS					

Note: Insert units if not provided on sheet.

J:\adminshr\rem-frm\DPTFRM.XLS

DPT GEOCHEMICAL DATA FORM
DPT Location: IDW

Project Number: FR1681 CS
Date: 2-9-12

DPT Location	Sample Depth	pH std units	Conductivity S/cm	Turbidity NTUs	Diss. O_2 g/L	Temp deg. C	Salinity	TDS g/L	ORP mV
CRHE-IDW		188738-20120209							
		Sampled @		17:10	CS				
CRHE-IDW		188736-20120209							
		Sampled @		17:11	CS				

Note: Insert units if not provided on sheet.

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse

Time	I DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0907	0185	16-20	7.80	1.549	—	3.32	27.21	—	—	-168.9	brown
0909	↓	↓	7.43	1.568	—	2.14	27.11	—	—	-174.3	↓
0911	↓	↓	7.37	1.568	—	2.00	27.09	—	—	-176.2	↓
Sampled @			0911								not shown on display
0917	0185	21-25	7.54	1.449	—	3.26	26.90	0.72	0.943	-131.7	lt brown
0919	↓	↓	7.41	1.464	—	1.64	26.49	0.74	0.957	-133.0	↓
0921	↓	↓	7.36	1.476	—	1.51	26.48	0.74	0.961	-133.7	↓
Sampled @			0921								
0933	0185	26-30	7.39	1.705	—	11.11	26.93	0.86	1.110	-134.0	lt brown
0935	↓	↓	7.37	1.709	—	10.24	26.94	0.86	1.113	-137.0	↓
0937	↓	↓	7.35	1.712	—	8.81	26.92	0.86	1.112	-138.7	↓
Sampled @			0937								
0945	0185	31-35	7.31	1.972	—	5.01	26.96	1.9	1.297	-148.6	lt brown
0947	↓	↓	7.33	1.999	—	3.30	26.96	1.01	1.294	-149.5	↓
0949	↓	↓	7.34	1.982	—	2.92	26.93	1.00	1.276	-149.5	↓
Sampled @			0949								
1000	0185	36-40	7.44	1.846	—	4.75	27.47	0.94	1.206	-186.6	gray
1002	↓	↓	7.43	1.857	—	2.64	27.46	0.94	1.209	-190.6	↓
1004	↓	↓	7.43	1.862	—	2.26	27.45	0.94	1.214	-193.6	↓
Sampled @			1004								
1018	0185	41-45	7.63	1.051	—	1.90	28.68	0.41	0.540	-228.3	gray
1020	↓	↓	7.60	0.713	—	1.65	28.73	0.32	0.423	-229.2	↓
1022	↓	↓	7.59	0.617	—	1.48	28.75	0.29	0.392	-230.5	↓
Sampled @			1022								

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse.

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1043	0185	56-60	7.68	2.611	—	9.01	28.01	1.37	1.739	-186.6	gray
1045	↓	↓	7.67	2.696	—	5.17	27.95	1.40	1.771	-192.8	↓
1047	↓	↓	7.666	2.749	—	4.00	27.97	1.43	1.812	-197.5	↓
Sampled @ 1047											

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Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681

Date: 10/2/12 M. Stackhouse.

Time	H DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1208	0186	26-30	7.96	0.665	—	5.40	28.02	0.24	0.303	-189.7	gray
1210	↓	↓	7.81	0.383	—	4.80	27.97	0.15	0.207	-193.9	↓
1212	↓	↓	7.72	0.310	—	4.90	27.94	0.14	0.197	-196.6	↓
Sampled @ 1212											
1223	0186	31-35	7.56	1.739	—	4.81	27.72	0.90	1.129	-153.7	gray
1225	↓	↓	7.47	1.834	—	3.62	27.52	0.94	1.212	-156.1	↓
1227	↓	↓	7.42	1.899	—	3.31	27.20	0.97	1.245	-156.9	↓
Sampled @ 1227											
1236	0186	36-40	7.68	2.006	—	8.22	27.34	1.04	1.367	-163.5	gray
1238	↓	↓	7.60	2.108	—	5.61	26.82	1.09	1.389	-164.2	↓
1240	↓	↓	7.56	2.145	—	5.29	26.60	1.09	1.402	-164.3	↓
Sampled @ 1240											
1253	0186	41-45	7.71	1.753	—	5.56	27.72	0.95	1.238	-188.7	gray
1255	↓	↓	7.69	1.982	—	3.41	27.50	1.03	1.330	-199.5	↓
1257	↓	↓	7.68	2.082	—	3.60	27.28	1.08	1.388	-202.5	↓
Sampled @ 1257											
1310	0186	56-60	7.71	2.662	—	1.68	27.58	1.39	1.786	-210.3	gray
1312	↓	↓	7.70	2.799	—	1.52	27.32	1.45	1.834	-211.5	↓
1314	↓	↓	7.70	2.810	—	1.47	27.13	1.44	1.810	-211.0	↓
Sampled @ 1314											
	~~0186~~										

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse

Time	G DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1345	0187	26-30	8.21	0.831	—	4.30	28.12	0.40	0.534	-194.0	gray
1347	↓	↓	8.06	0.817	—	3.41	28.00	0.40	0.528	-201.6	↓
1349	↓	↓	8.01	0.809	—	3.10	28.01	0.39	0.524	-205.4	↓
Sampled @ 1349											
1359	0187	31-35	7.85	1.610	—	6.33	27.07	0.88	1.171	+19.5	gray
1401	↓	↓	7.53	1.959	—	3.81	25.52	1.03	1.333	-114.1	↓
1403	↓	↓	7.39	2.083	—	3.18	24.62	1.07	1.359	-109.1	↓
Sampled @ 1403											
1414	0187	36-40	7.69	1.872	—	4.12	27.50	0.96	1.243	-173.8	gray
1416	↓	↓	7.57	1.945	—	2.93	27.36	1.02	1.295	-179.9	↓
1418	↓	↓	7.52	2.039	—	2.46	27.20	1.05	1.353	-182.2	
Sampled @ 1418											
1453	0187	41-45	7.72	1.726	—	4.51	28.59	0.90	1.191	-170.6	gray
1455	↓	↓	7.61	1.944	—	2.44	27.65	1.04	1.346	-182.4	↓
1457	↓	↓	7.53	2.128	—	1.97	27.06	0.99	1.272	-181.9	
Sampled @ 1457											
1513	0187	56-60	7.75	2.313	—	2.79	27.92	1.16	1.474	-212.2	gray
1515	↓	↓	7.72	2.262	—	1.86	27.84	1.15	1.473	-218.8	↓
1517	↓	↓	7.72	2.273	—	1.70	27.75	1.16	1.484	-223.6	↓
Sampled @ 1517											

Notes:

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse

Time	G DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1345	0187	26-30	8.21	0.831	—	4.30	28.12	0.40	0.534	-194.0	gray
1347	↓	↓	8.06	0.817	—	3.41	28.00	0.40	0.528	-201.6	↓
1349	↓	↓	8.01	0.809	—	3.10	28.01	0.39	0.524	-205.4	↓
Sampled @ 1349											
1359	0187	31-35	7.85	1.610	—	6.33	27.07	0.88	1.171	+19.5	gray
1401	↓	↓	7.53	1.959	—	3.81	25.52	1.03	1.333	-114.1	↓
1403	↓	↓	7.39	2.083	—	3.18	24.62	1.07	1.359	-109.1	↓
Sampled @ 1403											
1414	0187	36-40	7.69	1.872	—	4.12	27.50	0.96	1.243	-173.8	gray
1416	↓	↓	7.57	1.945	—	2.93	27.36	1.02	1.295	-179.9	↓
1418	↓	↓	7.52	2.039	—	2.46	27.20	1.05	1.353	-182.2	
Sampled @ 1418											
1453	0187	41-45	7.72	1.726	—	4.51	28.59	0.90	1.191	-170.6	gray
1455	↓	↓	7.61	1.944	—	2.44	27.65	1.04	1.346	-182.4	↓
1457	↓	↓	7.53	2.128	—	1.97	27.06	0.99	1.272	-181.9	
Sampled @ 1457											
1513	0187	56-60	7.75	2.313	—	2.79	27.92	1.16	1.474	-212.2	gray
1515	↓	↓	7.72	2.262	—	1.86	27.84	1.15	1.473	-218.8	↓
1517	↓	↓	7.72	2.273	—	1.70	27.75	1.16	1.484	-223.6	↓
Sampled @ 1517											

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 & 10/3/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1555	0188	26-30	8.01	0.923	—	4.02	27.50	0.45	0.598	-160.1	gray
1557	↓	↓	7.67	0.912	—	3.02	27.36	0.44	0.589	-171.8	↓
1559	↓	↓	7.55	0.897	—	2.56	27.31	0.44	0.579	-170.4	↓
Sampled @ 1559											
1609	0188	31-35	7.36	1.571	—	4.00	27.52	0.81	1.042	-154.4	gray
1611	↓	↓	7.32	1.661	—	2.34	27.42	0.84	1.091	-161.1	↓
1613	↓	↓	7.34	1.681	—	1.88	27.25	0.85	1.095	-162.5	↓
Sampled @ 1613											
0810	0188	36-40	8.00	1.081	—	12.69	24.37	0.42	0.520	-97.9	gray
0812	↓	↓	7.95	0.713	—	10.68	24.47	0.32	0.422	-119.7	↓
0814	↓	↓	7.95	0.622	—	9.03	24.59	0.29	0.392	-134.7	↓
Sampled @ 0814											
0828	0188	41-45	8.03	1.793	—	5.61	25.51	0.93	1.198	-76.9	gray
0830	↓	↓	7.79	1.854	—	4.04	25.42	0.93	1.210	-80.2	↓
0832	↓	↓	7.69	1.869	—	3.72	25.37	0.95	1.221	-80.9	↓
Sampled @ 0832											
0846	0188	56-60	7.83	2.051	—	4.03	25.44	1.07	1.365	-110.7	gray
0848	↓	↓	7.80	2.133	—	4.04	25.42	1.11	1.417	-118.5	↓
0850	↓	↓	7.78	2.208	—	3.78	25.37	1.15	1.461	-122.3	↓
Sampled @ 0850											

10/2/12

10/3/12

Notes:

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= Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	V8 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0948	0189 MWS	51-55		Low Yield - Sample Only							brown/ silver
0950	0174	↓									
0952	↓	↓			—						
Sampled @			0952								
	0174										
1013	0189 MWS	56-60	8.14	2.583	—	3.11	27.48	1.35	1.709	-63.4	gray
1015	↓	↓	7.87	2.654	—	1.87	26.70	1.37	1.737	-74.8	↓
1017	↓	↓	7.76	2.681	—	1.63	26.37	1.38	1.746	-79.9	↓
Sampled @			1017								

Notes:
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NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse.

Time	V16 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1513	~~0192~~	56-60	8.00	3.639	—	4.33	30.90	1.92	2.393	-64.8	gray
1515	0149	↓	7.80	3.679	—	2.67	30.71	1.91	2.382	-79.0	↓
1517	↓	↓	7.71	3.658	—	2.35	30.50	1.91	2.377	-86.3	↓
Sampled @			1517								

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NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 & 10/3/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1555	0188	26-30	8.01	0.923	—	4.02	27.50	0.45	0.598	-160.1	gray
1557	↓	↓	7.67	0.912	—	3.02	27.36	0.44	0.589	-171.8	↓
1559	↓	↓	7.55	0.897	—	2.56	27.31	0.44	0.579	-170.4	↓
Sampled @ 1559											
1609	0188	31-35	7.36	1.571	—	4.00	27.52	0.81	1.042	-154.4	gray
1611	↓	↓	7.32	1.661	—	2.34	27.42	0.84	1.091	-161.1	↓
1613	↓	↓	7.34	1.681	—	1.88	27.25	0.85	1.095	-162.5	↓
Sampled @ 1613											
0810	0188	36-40	8.00	1.081	—	12.69	24.37	0.42	0.520	-97.9	gray
0812	↓	↓	7.95	0.713	—	10.68	24.47	0.32	0.422	-119.7	↓
0814	↓	↓	7.95	0.622	—	9.03	24.59	0.29	0.392	-134.7	↓
Sampled @ 0814											
0828	0188	41-45	8.03	1.793	—	5.61	25.51	0.93	1.198	-76.9	gray
0830	↓	↓	7.79	1.854	—	4.04	25.42	0.93	1.210	-80.2	↓
0832	↓	↓	7.69	1.869	—	3.72	25.37	0.95	1.221	-80.9	↓
Sampled @ 0832											
0846	0188	56-60	7.83	2.051	—	4.03	25.44	1.07	1.365	-110.7	gray
0848	↓	↓	7.80	2.133	—	4.04	25.42	1.11	1.417	-118.5	↓
0850	↓	↓	7.78	2.208	—	3.78	25.37	1.15	1.461	-122.3	↓
Sampled @ 0850											

10/2/12

10/3/12

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= Nephelometric Turbidity Units

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	V8 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0948	0189 MWS	51-55		Low Yield - Sample Only							brown/ silver
0950	0174	↓									
0952	↓	↓			—						
Sampled @			0952								
	0174										
1013	0189 MWS	56-60	8.14	2.583	—	3.11	27.48	1.35	1.709	-63.4	gray
1015	↓	↓	7.87	2.654	—	1.87	26.70	1.37	1.737	-74.8	↓
1017	↓	↓	7.76	2.681	—	1.63	26.37	1.38	1.746	-79.9	↓
Sampled @			1017								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	A DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1050	D190	26-30	8.03	1.273	—	7.80	28.87	0.69	0.748	-57.0	gray
1052	↓	↓	7.72	1.065	—	5.41	28.64	0.50	0.660	-60.2	↓
1054	↓	↓	7.65	0.993	—	4.66	28.66	0.48	0.633	-61.7	↓
Sampled @ 1054											
1103	0190	31-35	7.86	1.442	—	7.33	29.03	0.74	0.973	-70.5	gray
1105	↓	↓	7.67	1.510	—	7.64	28.75	0.76	0.987	-76.5	↓
1107	↓	↓	7.59	1.522	—	4.72	28.65	0.76	0.992	-79.5	↓
Sampled @ 1107											
1118	0190	36-40	7.69	1.539	—	8.72	30.32	0.80	1.057	-96.7	gray
1120	↓	↓	7.66	1.664	—	6.20	30.13	0.84	1.099	-103.2	↓
1122	↓	↓	7.65	1.710	—	5.41	29.94	0.86	1.123	-104.7	↓
Sampled @ 1122		41-45									
1130	0190	↓	7.73	2.115	—	6.60	29.95	0.97	1.250	-68.6	gray
1132	↓	↓	7.67	1.943	—	4.62	29.64	0.99	1.282	-79.4	↓
1134	↓	↓	7.61	1.988	—	4.13	29.24	1.01	1.299	-82.4	↓
Sampled @ 1134											
1148	0190	56-60	7.75	2.828	—	4.81	30.64	1.48	1.883	-81.6	gray
1150	↓	↓	7.69	2.937	—	3.16	30.20	1.82	1.927	-87.1	↓
1152	↓	↓	7.67	2.985	—	2.90	30.03	1.55	1.986	-88.9	↓
Sampled @ 1152											

Notes:

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NTU = Nephelometric Turbidity Units

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	F DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1325	0191	26-30	7.85	0.856	—	22.16	29.01	0.42	0.557	-41.1	gray
1327	↓	↓	7.69	0.854	—	16.66	28.06	0.41	0548	-35.0	↓
1329	↓	↓	7.86	0.835	—	12.51	27.63	0.40	0.536	-30.7	↓
Sampled @ 1329											
1340	0191	31-35	7.83	0.834	—	10.05	29.92	0.40	0.543	-79.8	gray
1342	↓	↓	7.63	0.835	—	8.30	29.65	0.41	0.544	-84.0	↓
1344	↓	↓	7.68	0.837	—	7.06	29.68	0.41	0.545	-87.2	↓
Sampled @ 1344											
1355	0191	36-40	7.70	1.904	—	7.00	30.14	0.95	1.229	-24.4	gray
1357	↓	↓	7.47	1.883	—	4.33	29.45	0.95	1.220	-29.3	↓
1359	↓	↓	7.38	1.876	—	3.54	29.26	0.94	1.220	-29.0	↓
Sampled @ 1359											
1416	0191	41-45	7.52	2.045	—	4.15	31.46	1.06	1.230	-79.4	gray
1418	↓	↓	7.51	1.898	—	2.73	31.41	0.95	1.237	-78.9	↓
1420	↓	↓	7.50	1.908	—	2.45	31.37	0.96	1.243	-78.6	↓
Sampled @ 1420											
1433	0191	56-60	7.67	2.994	—	4.78	30.90	1.54	1.931	-61.5	gray
1435	↓	↓	7.62	2.965	—	3.14	30.14	1.53	1.929	-69.3	↓
1437	↓	↓	7.60	2.976	—	2.79	29.70	1.54	1.942	-71.9	↓
Sampled @ 1437											

Notes:

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse.

Time	V16 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1513	~~0192~~	56-60	8.00	3.639	—	4.33	30.90	1.92	2.393	-64.8	gray
1515	0149	↓	7.80	3.679	—	2.67	30.71	1.91	2.382	-79.0	↓
1517	↓	↓	7.71	3.658	—	2.35	30.50	1.91	2.377	-86.3	
Sampled @			1517								

Notes:
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DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681

Date: 10/3/12 M. Stackhouse

Time	B DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1542	0189	16-20	7.78	1.451	—	8.06	30.59	0.72	0.948	-72.4	gray
1544	↓	↓	7.66	1.458	—	6.11	30.43	0.72	0.945	-74.6	↓
1546	↓	↓	7.62	1.450	—	5.40	30.29	0.72	0.939	-75.0	↓
Sampled @ 1546											
1554	0189	21-25	7.51	1.318	—	7.74	29.30	0.66	0.875	-107.9	gray
1556	↓	↓	7.47	1.357	—	5.00	29.47	0.67	0.887	-100.2	↓
1558	↓	↓	7.46	1.354	—	4.17	29.53	0.67	0.879	-96.6	↓
Sampled @ 1558											
1625	0189	26-30	7.64	1.241	—	7.31	31.00	0.60	0.786	-46.2	gray
1627	↓	↓	7.53	1.200	—	5.39	30.60	0.59	0.776	-46.7	↓
1629	↓	↓	7.47	1.190	—	4.66	30.30	0.58	0.769	-45.8	↓
Sampled @ 1629											
1636	0189	31-35	7.53	1.307	—	5.47	28.75	0.62	0.812	-92.3	gray
1638	↓	↓	7.51	1.250	—	5.05	27.68	0.62	0.820	-85.0	↓
1640	↓	↓	7.48	1.284	—	4.64	27.14	0.61	0.807	-76.6	↓
Sampled @ 1640											
1650	0189	36-40	7.69	1.724	—	6.02	29.28	0.89	1.164	-56.4	gray
1652	↓	↓	7.54	1.816	—	4.71	28.66	0.92	1.192	-54.4	↓
1654	↓	↓	7.46	1.841	—	3.87	28.44	0.93	1.200	-47.4	↓
Sampled @ 1654											
1702	0189	41-45	7.64	1.979	—	6.45	28.98	0.99	1.269	-52.1	gray
1704	↓	↓	7.61	1.938	—	4.70	29.20	0.97	1.254	-64.0	↓
1706	↓	↓	7.60	1.935	—	3.86	29.21	0.98	1.271	-72.3	↓
Sampled @ 1706											

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Temp (°C) = Temperature (degrees Celsius)
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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse.

Time	B DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1716	0189	56-60	7.58	2.781	—	3.08	28.06	1.44	1.816	-56.2	
1718	↓	↓	7.60	2.814	—	2.60	27.89	1.46	1.842	-64.6	↓
1720	↓	↓	7.60	2.848	—	2.41	27.89	1.48	1.865	-70.1	↓
Sampled @			1720								

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Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/4/12 M Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0816	0192	16-20	7.81	1.394	—	13.62	27.36	0.71	0.929	-141.5	gray
0818	↓	↓	7.61	1.447	—	11.84	27.35	0.73	0.951	-153.2	↓
0820	↓	↓	7.55	1.473	—	9.89	27.34	0.74	0.965	-158.3	↓
Sampled @			0820								
		~~21-25~~									
0828	0192	21-25	7.78	1.526	—	13.10	26.06	0.77	0.997	-121.0	gray
0830	↓	↓	7.57	1.538	—	10.05	26.63	0.77	1.003	-127.3	↓
0832	↓	↓	7.50	1.545	—	8.39	26.61	0.77	1.006	-129.7	↓
Sampled @			0832								
0838	0192	26-30	7.79	1.611	—	4.53	27.53	0.81	1.044	-111.1	gray
0840	↓	↓	7.61	1.603	—	3.11	27.42	0.80	1.040	-119.9	↓
0842	↓	↓	7.53	1.599	—	2.90	27.37	0.80	1.039	-230.2	↓
Sampled @			0842								
0851	0192	31-35	7.70	1.693	—	9.71	28.43	0.86	1.119	-132.1	gray
0853	↓	↓	7.56	1.734	—	7.81	28.38	0.88	1.137	-141.8	↓
0855	↓	↓	7.56	1.755	—	7.55	28.33	0.89	1.148	-148.4	↓
Sampled @			0855								
0904	0192	36-40	7.62	1.731	—	6.22	28.21	0.87	1.120	-159.5	gray
0906	↓	↓	7.61	1.719	—	5.15	28.16	0.86	1.112	-162.3	↓
0908	↓	↓	7.61	1.705	—	4.83	28.13	0.85	1.101	-164.9	↓
Sampled @			0908								
0921	0192	41-45	7.64	2.088	—	9.42	27.86	1.08	1.396	-141.0	gray
0923	↓	↓	7.58	2.165	—	8.22	27.58	1.11	1.421	-146.9	↓
0925	↓	↓	7.56	2.196	—	7.67	27.39	1.12	1.436	-149.4	↓
Sampled @			0925								

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Temp (°C) = Temperature (degrees Celsius)
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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/4/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0940	E 0192	56-60	7.82	2.433	—	8.01	28.22	1.26	1.610	-129.8	gray
0942	↓	↓	7.74	2.502	—	7.73	28.01	1.29	1.645	-148.9	↓
0944	↓	↓	7.70	2.544	—	5.26	28.06	1.31	1.666	-158.2	↓
Sampled @			0944								

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Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse

Time	I DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0907	0185	16-20	7.80	1.549	—	3.32	27.21	—	—	-168.9	brown
0909	↓	↓	7.43	1.568	—	2.14	27.11	—	—	-174.3	↓
0911	↓	↓	7.37	1.568	—	2.00	27.09	—	—	-176.2	↓
Sampled @			0911								not shown on display
0917	0185	21-25	7.54	1.449	—	3.26	26.90	0.72	0.943	-131.7	lt brown
0919	↓	↓	7.41	1.464	—	1.64	26.49	0.74	0.957	-133.0	↓
0921	↓	↓	7.36	1.476	—	1.51	26.48	0.74	0.961	-133.7	↓
Sampled @			0921								
0933	0185	26-30	7.39	1.705	—	11.11	26.93	0.86	1.110	-134.0	lt brown
0935	↓	↓	7.37	1.709	—	10.24	26.94	0.86	1.113	-137.0	↓
0937	↓	↓	7.35	1.712	—	8.81	26.92	0.86	1.112	-138.7	↓
Sampled @			0937								
0945	0185	31-35	7.31	1.972	—	5.01	26.96	1.9	1.297	-148.6	lt brown
0947	↓	↓	7.33	1.999	—	3.30	26.96	1.01	1.294	-149.5	↓
0949	↓	↓	7.34	1.982	—	2.92	26.93	1.00	1.276	-149.5	↓
Sampled @			0949								
1000	0185	36-40	7.44	1.846	—	4.75	27.47	0.94	1.206	-186.6	gray
1002	↓	↓	7.43	1.857	—	2.64	27.46	0.94	1.209	-190.6	↓
1004	↓	↓	7.43	1.862	—	2.26	27.45	0.94	1.214	-193.6	↓
Sampled @			1004								
1018	0185	41-45	7.63	1.051	—	1.90	28.68	0.41	0.540	-228.3	gray
1020	↓	↓	7.60	0.713	—	1.65	28.73	0.32	0.423	-229.2	↓
1022	↓	↓	7.59	0.617	—	1.48	28.75	0.29	0.392	-230.5	↓
Sampled @			1022								

Notes:

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse.

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1043	0185	56-60	7.68	2.611	—	9.01	28.01	1.37	1.739	-186.6	gray
1045	↓	↓	7.67	2.696	—	5.17	27.95	1.40	1.771	-192.8	↓
1047	↓	↓	7.666	2.749	—	4.00	27.97	1.43	1.812	-197.5	↓
Sampled @ 1047											

Notes:
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NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681

Date: 10/2/12 M. Stackhouse.

Time	H DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1208	0186	26-30	7.96	0.665	—	5.40	28.02	0.24	0.303	-189.7	gray
1210	↓	↓	7.81	0.383	—	4.80	27.97	0.15	0.207	-193.9	↓
1212	↓	↓	7.72	0.310	—	4.90	27.94	0.14	0.197	-196.6	↓
Sampled @ 1212											
1223	0186	31-35	7.56	1.739	—	4.81	27.72	0.90	1.129	-153.7	gray
1225	↓	↓	7.47	1.834	—	3.62	27.52	0.94	1.212	-156.1	↓
1227	↓	↓	7.42	1.899	—	3.31	27.20	0.97	1.245	-156.9	↓
Sampled @ 1227											
1236	0186	36-40	7.68	2.006	—	8.22	27.34	1.04	1.367	-163.5	gray
1238	↓	↓	7.60	2.108	—	5.61	26.82	1.09	1.389	-164.2	↓
1240	↓	↓	7.56	2.145	—	5.29	26.60	1.09	1.402	-164.3	↓
Sampled @ 1240											
1253	0186	41-45	7.71	1.753	—	5.56	27.72	0.95	1.238	-188.7	gray
1255	↓	↓	7.69	1.982	—	3.41	27.50	1.03	1.330	-199.5	↓
1257	↓	↓	7.68	2.082	—	3.60	27.28	1.08	1.388	-202.5	↓
Sampled @ 1257											
1310	0186	56-60	7.71	2.662	—	1.68	27.58	1.39	1.786	-210.3	gray
1312	↓	↓	7.70	2.799	—	1.52	27.32	1.45	1.834	-211.5	↓
1314	↓	↓	7.70	2.810	—	1.47	27.13	1.44	1.810	-211.0	↓
Sampled @ 1314											
	~~0186~~										

Notes:
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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
TU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse

Time	G DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1345	0187	26-30	8.21	0.831	—	4.30	28.12	0.40	0.534	-194.0	gray
1347	↓	↓	8.06	0.817	—	3.41	28.00	0.40	0.528	-201.6	↓
1349	↓	↓	8.01	0.809	—	3.10	28.01	0.39	0.524	-205.4	↓
Sampled @ 1349											
1359	0187	31-35	7.85	1.610	—	6.33	27.07	0.88	1.171	+19.5	gray
1401	↓	↓	7.53	1.959	—	3.81	25.52	1.03	1.333	-114.1	↓
1403	↓	↓	7.39	2.083	—	3.18	24.62	1.07	1.359	-109.1	↓
Sampled @ 1403											
1414	0187	36-40	7.69	1.872	—	4.12	27.50	0.96	1.243	-173.8	gray
1416	↓	↓	7.57	1.945	—	2.93	27.36	1.02	1.295	-179.9	↓
1418	↓	↓	7.52	2.039	—	2.46	27.20	1.05	1.353	-182.2	
Sampled @ 1418											
1453	0187	41-45	7.72	1.726	—	4.51	28.59	0.90	1.191	-170.6	gray
1455	↓	↓	7.61	1.944	—	2.44	27.65	1.04	1.346	-182.4	↓
1457	↓	↓	7.53	2.128	—	1.97	27.06	0.99	1.272	-181.9	
Sampled @ 1457											
1513	0187	56-60	7.75	2.313	—	2.79	27.92	1.16	1.474	-212.2	gray
1515	↓	↓	7.72	2.262	—	1.86	27.84	1.15	1.473	-218.8	↓
1517	↓	↓	7.72	2.273	—	1.70	27.75	1.16	1.484	-223.6	↓
Sampled @ 1517											

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 M. Stackhouse

Time	G DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1345	0187	26-30	8.21	0.831	—	4.30	28.12	0.40	0.534	-194.0	gray
1347	↓	↓	8.06	0.817	—	3.41	28.00	0.40	0.528	-201.6	↓
1349	↓	↓	8.01	0.809	—	3.10	28.01	0.39	0.524	-205.4	↓
Sampled @ 1349											
1359	0187	31-35	7.85	1.610	—	6.33	27.07	0.88	1.171	+19.5	gray
1401	↓	↓	7.53	1.959	—	3.81	25.52	1.03	1.333	-114.1	↓
1403	↓	↓	7.39	2.083	—	3.18	24.62	1.07	1.359	-109.1	↓
Sampled @ 1403											
1414	0187	36-40	7.69	1.872	—	4.12	27.50	0.96	1.243	-173.8	gray
1416	↓	↓	7.57	1.945	—	2.93	27.36	1.02	1.295	-179.9	↓
1418	↓	↓	7.52	2.039	—	2.46	27.20	1.05	1.353	-182.2	
Sampled @ 1418											
1453	0187	41-45	7.72	1.726	—	4.51	28.59	0.90	1.191	-170.6	gray
1455	↓	↓	7.61	1.944	—	2.44	27.65	1.04	1.346	-182.4	↓
1457	↓	↓	7.53	2.128	—	1.97	27.06	0.99	1.272	-181.9	
Sampled @ 1457											
1513	0187	56-60	7.75	2.313	—	2.79	27.92	1.16	1.474	-212.2	gray
1515	↓	↓	7.72	2.262	—	1.86	27.84	1.15	1.473	-218.8	↓
1517	↓	↓	7.72	2.273	—	1.70	27.75	1.16	1.484	-223.6	↓
Sampled @ 1517											

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 & 10/3/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1555	0188	26-30	8.01	0.923	—	4.02	27.50	0.45	0.598	-160.1	gray
1557	↓	↓	7.67	0.912	—	3.02	27.36	0.44	0.589	-171.8	↓
1559	↓	↓	7.55	0.897	—	2.56	27.31	0.44	0.579	-170.4	↓
Sampled @ 1559											
1609	0188	31-35	7.36	1.571	—	4.00	27.52	0.81	1.042	-154.4	gray
1611	↓	↓	7.32	1.661	—	2.34	27.42	0.84	1.091	-161.1	↓
1613	↓	↓	7.34	1.681	—	1.88	27.25	0.85	1.095	-162.5	↓
Sampled @ 1613											
0810	0188	36-40	8.00	1.081	—	12.69	24.37	0.42	0.520	-97.9	gray
0812	↓	↓	7.95	0.713	—	10.68	24.47	0.32	0.422	-119.7	↓
0814	↓	↓	7.95	0.622	—	9.03	24.59	0.29	0.392	-134.7	↓
Sampled @ 0814											
0828	0188	41-45	8.03	1.793	—	5.61	25.51	0.93	1.198	-76.9	gray
0830	↓	↓	7.79	1.854	—	4.04	25.42	0.93	1.210	-80.2	↓
0832	↓	↓	7.69	1.869	—	3.72	25.37	0.95	1.221	-80.9	↓
Sampled @ 0832											
0846	0188	56-60	7.83	2.051	—	4.03	25.44	1.07	1.365	-110.7	gray
0848	↓	↓	7.80	2.133	—	4.04	25.42	1.11	1.417	-118.5	↓
0850	↓	↓	7.78	2.208	—	3.78	25.37	1.15	1.461	-122.3	↓
Sampled @ 0850											

10/2/12

10/3/12

Notes:

DPT = Direct Push Technology

BLS = feet below land surface

'cm = milliSiemens per centimeter (or millimhos per centimeter)

= Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	V8 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0948	0189 MWS	51-55		Low Yield - Sample Only							brown/ silver
0950	0174	↓									
0952	↓	↓			—						
Sampled @			0952								
	0174										
1013	0189 MWS	56-60	8.14	2.583	—	3.11	27.48	1.35	1.709	-63.4	gray
1015	↓	↓	7.87	2.654	—	1.87	26.70	1.37	1.737	-74.8	↓
1017	↓	↓	7.76	2.681	—	1.63	26.37	1.38	1.746	-79.9	↓
Sampled @			1017								

Notes:
DPT = Direct Push Technology
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NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse.

Time	V16 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1513	~~0192~~	56-60	8.00	3.639	—	4.33	30.90	1.92	2.393	-64.8	gray
1515	0149	↓	7.80	3.679	—	2.67	30.71	1.91	2.382	-79.0	↓
1517	↓	↓	7.71	3.658	—	2.35	30.50	1.91	2.377	-86.3	
Sampled @			1517								

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DPT = Direct Push Technology
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NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/2/12 & 10/3/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1555	0188	26-30	8.01	0.923	—	4.02	27.50	0.45	0.598	-160.1	gray
1557	↓	↓	7.67	0.912	—	3.02	27.36	0.44	0.589	-171.8	↓
1559	↓	↓	7.55	0.897	—	2.56	27.31	0.44	0.579	-170.4	↓
Sampled @ 1559											
1609	0188	31-35	7.36	1.571	—	4.00	27.52	0.81	1.042	-154.4	gray
1611	↓	↓	7.32	1.661	—	2.34	27.42	0.84	1.091	-161.1	↓
1613	↓	↓	7.34	1.681	—	1.88	27.25	0.85	1.095	-162.5	↓
Sampled @ 1613											
0810	0188	36-40	8.00	1.081	—	12.69	24.37	0.42	0.520	-97.9	gray
0812	↓	↓	7.95	0.713	—	10.68	24.47	0.32	0.422	-119.7	↓
0814	↓	↓	7.95	0.622	—	9.03	24.59	0.29	0.392	-134.7	↓
Sampled @ 0814											
0828	0188	41-45	8.03	1.793	—	5.61	25.51	0.93	1.198	-76.9	gray
0830	↓	↓	7.79	1.854	—	4.04	25.42	0.93	1.210	-80.2	↓
0832	↓	↓	7.69	1.869	—	3.72	25.37	0.95	1.221	-80.9	↓
Sampled @ 0832											
0846	0188	56-60	7.83	2.051	—	4.03	25.44	1.07	1.365	-110.7	gray
0848	↓	↓	7.80	2.133	—	4.04	25.42	1.11	1.417	-118.5	↓
0850	↓	↓	7.78	2.208	—	3.78	25.37	1.15	1.461	-122.3	↓
Sampled @ 0850											

10/2/12

10/3/12

Notes:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	V8 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0948	0189 MWS	51-55		Low Yield - Sample Only							brown/ silver
0950	0174	↓									
0952	↓	↓			—						
Sampled @			0952								
	0174										
1013	0189 MWS	56-60	8.14	2.583	—	3.11	27.48	1.35	1.709	-63.4	gray
1015	↓	↓	7.87	2.654	—	1.87	26.70	1.37	1.737	-74.8	↓
1017	↓	↓	7.76	2.681	—	1.63	26.37	1.38	1.746	-79.9	↓
Sampled @			1017								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	A DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1050	D190	26-30	8.03	1.273	—	7.80	28.87	0.69	0.748	-57.0	gray
1052	↓	↓	7.72	1.065	—	5.41	28.64	0.50	0.660	-60.2	↓
1054	↓	↓	7.65	0.993	—	4.66	28.66	0.48	0.633	-61.7	↓
Sampled @ 1054											
1103	0190	31-35	7.86	1.442	—	7.33	29.03	0.74	0.973	-70.5	gray
1105	↓	↓	7.67	1.510	—	7.64	28.75	0.76	0.987	-76.5	↓
1107	↓	↓	7.59	1.522	—	4.72	28.65	0.76	0.992	-79.5	↓
Sampled @ 1107											
1118	0190	36-40	7.69	1.539	—	8.72	30.32	0.80	1.057	-96.7	gray
1120	↓	↓	7.66	1.664	—	6.20	30.13	0.84	1.099	-103.2	↓
1122	↓	↓	7.65	1.710	—	5.41	29.94	0.86	1.123	-104.7	↓
Sampled @ 1122		41-45									
1130	0190	↓	7.73	2.115	—	6.60	29.95	0.97	1.250	-68.6	gray
1132	↓	↓	7.67	1.943	—	4.62	29.64	0.99	1.282	-79.4	↓
1134	↓	↓	7.61	1.988	—	4.13	29.24	1.01	1.299	-82.4	↓
Sampled @ 1134											
1148	0190	56-60	7.75	2.828	—	4.81	30.64	1.48	1.883	-81.6	gray
1150	↓	↓	7.69	2.937	—	3.16	30.20	1.82	1.927	-87.1	↓
1152	↓	↓	7.67	2.985	—	2.90	30.03	1.55	1.986	-88.9	↓
Sampled @ 1152											

Notes:

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse

Time	F DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1325	0191	26-30	7.85	0.856	—	22.16	29.01	0.42	0.557	-41.1	gray
1327	↓	↓	7.69	0.854	—	16.66	28.06	0.41	0548	-35.0	↓
1329	↓	↓	7.86	0.835	—	12.51	27.63	0.40	0.536	-30.7	↓
Sampled @ 1329											
1340	0191	31-35	7.83	0.834	—	10.05	29.92	0.40	0.543	-79.8	gray
1342	↓	↓	7.63	0.835	—	8.30	29.65	0.41	0.544	-84.0	↓
1344	↓	↓	7.68	0.837	—	7.06	29.68	0.41	0.545	-87.2	↓
Sampled @ 1344											
1355	0191	36-40	7.70	1.904	—	7.00	30.14	0.95	1.229	-24.4	gray
1357	↓	↓	7.47	1.883	—	4.33	29.45	0.95	1.220	-29.3	↓
1359	↓	↓	7.38	1.876	—	3.54	29.26	0.94	1.220	-29.0	↓
Sampled @ 1359											
1416	0191	41-45	7.52	2.045	—	4.15	31.46	1.06	1.230	-79.4	gray
1418	↓	↓	7.51	1.898	—	2.73	31.41	0.95	1.237	-78.9	↓
1420	↓	↓	7.50	1.908	—	2.45	31.37	0.96	1.243	-78.6	↓
Sampled @ 1420											
1433	0191	56-60	7.67	2.994	—	4.78	30.90	1.54	1.931	-61.5	gray
1435	↓	↓	7.62	2.965	—	3.14	30.14	1.53	1.929	-69.3	↓
1437	↓	↓	7.60	2.976	—	2.79	29.70	1.54	1.942	-71.9	↓
Sampled @ 1437											

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse.

Time	V16 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1513	~~0192~~	56-60	8.00	3.639	—	4.33	30.90	1.92	2.393	-64.8	gray
1515	0149	↓	7.80	3.679	—	2.67	30.71	1.91	2.382	-79.0	↓
1517	↓	↓	7.71	3.658	—	2.35	30.50	1.91	2.377	-86.3	
Sampled @			1517								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681

Date: 10/3/12 M. Stackhouse

Time	B DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1542	0189	16-20	7.78	1.451	—	8.06	30.59	0.72	0.948	-72.4	gray
1544	↓	↓	7.66	1.458	—	6.11	30.43	0.72	0.945	-74.6	↓
1546	↓	↓	7.62	1.450	—	5.40	30.29	0.72	0.939	-75.0	↓
Sampled @ 1546											
1554	0189	21-25	7.51	1.318	—	7.74	29.30	0.66	0.875	-107.9	gray
1556	↓	↓	7.47	1.357	—	5.00	29.47	0.67	0.887	-100.2	↓
1558	↓	↓	7.46	1.354	—	4.17	29.53	0.67	0.879	-96.6	↓
Sampled @ 1558											
1625	0189	26-30	7.64	1.241	—	7.31	31.00	0.60	0.786	-46.2	gray
1627	↓	↓	7.53	1.200	—	5.39	30.60	0.59	0.776	-46.7	↓
1629	↓	↓	7.47	1.190	—	4.66	30.30	0.58	0.769	-45.8	↓
Sampled @ 1629											
1636	0189	31-35	7.53	1.307	—	5.47	28.75	0.62	0.812	-92.3	gray
1638	↓	↓	7.51	1.250	—	5.05	27.68	0.62	0.820	-85.0	↓
1640	↓	↓	7.48	1.284	—	4.64	27.14	0.61	0.807	-76.6	↓
Sampled @ 1640											
1650	0189	36-40	7.69	1.724	—	6.02	29.28	0.89	1.164	-56.4	gray
1652	↓	↓	7.54	1.816	—	4.71	28.66	0.92	1.192	-54.4	↓
1654	↓	↓	7.46	1.841	—	3.87	28.44	0.93	1.200	-47.4	↓
Sampled @ 1654											
1702	0189	41-45	7.64	1.979	—	6.45	28.98	0.99	1.269	-52.1	gray
1704	↓	↓	7.61	1.938	—	4.70	29.20	0.97	1.254	-64.0	↓
1706	↓	↓	7.60	1.935	—	3.86	29.21	0.98	1.271	-72.3	↓
Sampled @ 1706											

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/3/12 M. Stackhouse.

Time	B DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1716	0189	56-60	7.58	2.781	—	3.08	28.06	1.44	1.816	-56.2	
1718	↓	↓	7.60	2.814	—	2.60	27.89	1.46	1.842	-64.6	↓
1720	↓	↓	7.60	2.848	—	2.41	27.89	1.48	1.865	-70.1	↓
Sampled @			1720								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1681

Date: 10/4/12 M Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0816	0192	16-20	7.81	1.394	—	13.62	27.36	0.71	0.929	-141.5	gray
0818	↓	↓	7.61	1.447	—	11.84	27.35	0.73	0.951	-153.2	↓
0820	↓	↓	7.55	1.473	—	9.89	27.34	0.74	0.965	-158.3	↓
Sampled @			0820								
		~~21-25~~									
0828	0192	21-25	7.78	1.526	—	13.10	26.06	0.77	0.997	-121.0	gray
0830	↓	↓	7.57	1.538	—	10.05	26.63	0.77	1.003	-127.3	↓
0832	↓	↓	7.50	1.545	—	8.39	26.61	0.77	1.006	-129.7	↓
Sampled @			0832								
0838	0192	26-30	7.79	1.611	—	4.53	27.53	0.81	1.044	-111.1	gray
0840	↓	↓	7.61	1.603	—	3.11	27.42	0.80	1.040	-119.9	↓
0842	↓	↓	7.53	1.599	—	2.90	27.37	0.80	1.039	-230.2	↓
Sampled @			0842								
0851	0192	31-35	7.70	1.693	—	9.71	28.43	0.86	1.119	-132.1	gray
0853	↓	↓	7.56	1.734	—	7.81	28.38	0.88	1.137	-141.8	↓
0855	↓	↓	7.56	1.755	—	7.55	28.33	0.89	1.148	-148.4	↓
Sampled @			0855								
0904	0192	36-40	7.62	1.731	—	6.22	28.21	0.87	1.120	-159.5	gray
0906	↓	↓	7.61	1.719	—	5.15	28.16	0.86	1.112	-162.3	↓
0908	↓	↓	7.61	1.705	—	4.83	28.13	0.85	1.101	-164.9	↓
Sampled @			0908								
0921	0192	41-45	7.64	2.088	—	9.42	27.86	1.08	1.396	-141.0	gray
0923	↓	↓	7.58	2.165	—	8.22	27.58	1.11	1.421	-146.9	↓
0925	↓	↓	7.56	2.196	—	7.67	27.39	1.12	1.436	-149.4	↓
Sampled @			0925								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/4/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0940	E 0192	56-60	7.82	2.433	—	8.01	28.22	1.26	1.610	-129.8	gray
0942	↓	↓	7.74	2.502	—	7.73	28.01	1.29	1.645	-148.9	↓
0944	↓	↓	7.70	2.544	—	5.26	28.06	1.31	1.666	-158.2	↓
Sampled @			0944								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR/681

Date: 10/4/12 M. Stackhouse

Time	V6 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1212	0148	51-55	7.65	2.006	—	12.71	30.84	1.01	1.302	-174.5	gray
1214	↓	↓	7.51	2.003	—	10.77	30.65	1.01	1.303	-175.2	↓
1216	↓	↓	7.49	2.005	—	9.12	30.74	1.01	1.304	-176.1	↓
Sampled @ 1216											
1229	0148	56-60	7.64	2.611	—	3.52	32.68	1.33	1.694	-174.3	gray
1231	↓	↓	7.63	2.600	—	3.08	32.14	1.32	1.684	-178.0	↓
1233	↓	↓	7.62	2.581	—	2.82	31.97	1.31	1.68	-180.1	↓
Sampled @ 1233											

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR/681

Date: 10/4/12 M. Stackhouse

Time	V6 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1212	0148	51-55	7.65	2.006	—	12.71	30.84	1.01	1.302	-174.5	gray
1214	↓	↓	7.51	2.003	—	10.77	30.65	1.01	1.303	-175.2	↓
1216	↓	↓	7.49	2.005	—	9.12	30.74	1.01	1.304	-176.1	↓
Sampled @ 1216											
1229	0148	56-60	7.64	2.611	—	3.52	32.68	1.33	1.694	-174.3	gray
1231	↓	↓	7.63	2.600	—	3.08	32.14	1.32	1.684	-178.0	↓
1233	↓	↓	7.62	2.581	—	2.82	31.97	1.31	1.68	-180.1	↓
Sampled @ 1233											

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/4/12 M. Stackhouse

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1328	0138	51-55	7.65	2.511	—	32.01	34.42	1.25	1.597	-171.9	gray
1330	↓	↓	7.62	2.425	—	16.91	34.03	1.21	1.555	-175.2	01
1332	↓	↓	7.61	2.362	—	13.88	34.08	1.18	1.516	-178.8	↓
Sampled @			1332								
1342	0138	56-60	7.63	2.692	—	4.65	32.55	1.39	1.768	-169.9	gray
1344	↓	↓	7.61	2.733	—	3.93	32.34	1.40	1.787	-176.9	01
1346	↓	↓	7.60	2.762	—	3.47	32.05	1.42	1.803	-181.3	↓
Sampled @			1346								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/4/12 M. Stackhouse

Time	V13 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1431	0010	51-55	Low Yield - Just Sampled								gray
1433	↓	↓									↓
1435	↓	↓			—						
Sampled	@	1435									
1450	0010	56-60	7.55	2.920	—	36.00	31.38	1.49	1.889	-161.6	gray
1452	↓	↓	7.57	2.918	—	12.68	31.34	1.51	1.900	-174.4	↓
1454	↓	↓	7.57	2.949	—	8.93	31.24	1.53	1.932	-178.7	↓
Sampled	@	1454									

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/4/12 M. Stackhouse

Time	V12 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1525	0044	56-60	7.79	1.130	—	5.32	31.35	0.55	0.723	-170.2	gray
1527	↓	↓	~~7.60~~ 7.38	1.102	—	4.62	31.35	0.53	0.708	-174.8	↓
1529	↓	↓	7.55	1.083	—	4.19	31.32	0.53	0.701	-173.2	↓
Sampled @			1529								
MPS	0044										
↓	↓	↓									
Sampled @											

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units
DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE/FR1681

Date: 10/4/12 M. Stackhouse

Time	V9 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1612	0158	51-55	7.37	2.283	—	7.30	30.88	1.18	1.512	-149.6	gray
1614	↓	↓	7.38	2.334	—	7.39	30.53	1.19	1.520	-165.7	↓
1616	↓	↓	7.42	2.394	—	7.43	30.12	1.23	1.579	-172.3	↓
Sampled @			1616								
1632	0158	56-60	7.60	2.664	—	3.80	28.89	1.38	1.744	-209.2	gray
1634	↓	↓	7.57	2.694	—	2.45	28.94	1.39	1.759	-205.4	↓
1636	↓	↓	7.56	2.711	—	2.21	28.96	1.40	1.767	-202.4	↓
Sampled @			1636								

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681

Date: 10/4/12 M. Stackhouse

Time	V10 DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1740	0193	67-71	7.75	2.644	—	16.40	30.12	1.38	1.759	-174.6	Grey
1742	↓	↓	7.68	2.735	—	11.41	30.12	1.41	1.795	-191.9	↓
1744	↓	↓	7.68	2.782	—	9.00	30.22	1.44	1.813	-200.4	↓
Sampled @ 1744											

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CHREL location V11/DPT0194

Project No: FR1691

Date: 10/5/12 Sampler: Rachel Donahue

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1101	0194	51-55	7.42	3.557	—	22.66	30.80	1.89	2.365	-101.1	gray
1103	↓	↓	7.27	3.717	—	14.31	30.49	1.95	2.432	-132.4	↓
1105	↓	↓	7.24	3.730	—	10.25	30.34	1.94	2.413	-146.1	↓
	Sampled @ 1106										
1123	0194	56-60	7.41	3.419	—	2.01	32.35	1.86	2.351	-198.4	gray
1125	↓	↓	7.42	3.699	—	0.108	32.36	1.96	2.456	-199.3	↓
1127	↓	↓	7.42	3.818	—	0.64	32.37	2.01	2.520	-200.3	↓
	Sampled @ 1128										

NASA forms

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CHR&I location VS / DPT0195

Project No: FR 1681

Date: 10/5/12 Sampler: Rachel Donahue

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1205	195	51-55	7.62	3.963	—	10.65	30.35	2.05	2.535	-190.9	gray
1207	↓	↓	7.48	3.851	—	6.15	30.38	2.00	2.484	-192.5	
1209	↓	↓	7.43	3.787	—	4.60	30.36	1.97	2.447	-201.5	↓
	Sampled @ 1210										
1220	195	56-60	7.33	4.491	—	1.00	31.39	2.31	2.831	-200.4	gray
1222	↓	↓	7.35	4.280	—	0.52	31.05	2.23	2.753	-204.9	↓
1224	↓	↓	7.36	4.222	—	0.45	30.96	2.22	2.739	-207.1	
	Sampled @ 1225										

NASA forms

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CHRG / Location V.2 / DPT0044

Project No: FR 1681

Date: 10/5/12 Sampler: Rachel Dinaro

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1324	0044	60-70	7.64	4.000	—	6.52	29.01	2.10	2583	-202.3	gray
1326	↓	↓	7.60	3.867	—	4.71	29.21	1.99	2451	-209.9	↓
1328	↓	↓	7.57	3.724	—	3.48	29.66	1.93	2392	-214.6	↓
	Sampled @ 1329										

NASA forms

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CAR4/LocationV14/DPT0155

Project No: FR11681

Date: 10/5/12 Sampler: Rachel Donahue

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1444	0155	50-60	7.99	3.527	—	17.45	27.78	1.82	2.264	-120.6	gray
1451	↓	↓	7.61	3.428	—	12.69	27.82	1.78	2.227	-169.2	↓
1453	↓	↓	7.52	3.410	—	11.78	27.83	1.78	2.213	-180.1	↓
	Sampled @1454										

NASA forms

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CHRE/location V15/DPT071

Project No: FR16B1

Date: 10/5/12 Sampler: Rachel Donahue

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1554	071	56-60	7.82	3.279	—	12.84	27.83	1.77	2.230	-141.9	gray
1556	↓	↓	7.65	3.554	—	9.09	27.00	1.90	2.305	-179.9	↓
1558	↓	↓	7.61	3.468	—	7.84	26.85	1.84	2.411	-197.0	↓
	sampled @		1559								

NASA forms

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CHRG/13/DPT 127

Project No: FR1681

Date: 10/5/12 Sampler: Rachel Bonacine

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1710	127	50-60	7.87	28.00	—	4.87	29.75	2.37	2.908	-173.2	gray
1712			7.73	4.468	—	3.41	28.51	2.36	2897	-194.2	↓
1714	↓	↓	7.71	4.450	—	3.18	28.38	2.35	2.888	-204.7	↓
	sampled @ 1715										

NASA forms

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CHRE / FR1681 / 25*2

Date: 3/18/13 Crystal Towns

Time	Z DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1002	0916	8-12			–						
1004	↓	↓		Low	Yield / No	parameters	collected				
1006	↓	↓			–						
	Sampled at 1007										
1015	0196	16-20	8.76	1.521	–	4.90	23.85	0.79	1.027	-69.9	grey
1017	↓	↓	7.38	1.559	–	0.41	24.24	0.80	1.028	-63.4	↓
1019	↓	↓	7.13	1.554	–	0.14	24.35	0.78	1.010	-59.9	↓
	Sampled at 1020										
1026	0196	21-25	7.01	1.659	–	0.15	24.60	0.84	1.090	-54.0	grey
1028	↓	↓	6.90	1.666	–	0.17	24.60	0.85	1.093	-55.9	↓
1030	↓	↓	6.87	1.670	–	0.15	24.64	0.85	1.094	-55.9	↓
	Sampled at 1031										
1041	0196	26-30	7.13	1.643	–	3.14	25.07	0.83	1.066	-76.1	grey
1043	↓	↓	6.98	1.646	–	0.40	25.19	0.82	1.062	-65.0	↓
1045	↓	↓	6.88	1.636	–	0.13	25.26	0.82	1.056	-61.7	↓
	Sampled at 1046										
1054	0196	31-35	7.36	0.999	–	7.30	25.13	0.88	1.138	-160.2	grey
1056	↓	↓	7.35	1.760	–	2.29	25.33	0.89	1.141	-165.4	↓
1058	↓	↓	7.35	1.766	–	0.32	25.28	0.88	1.137	-171.4	↓
	Sampled at 1059								1.388		
1113	0196	36-40	7.42	2.036	–	4.65	25.42	1.06	~~1.39~~ CT	-139.6	grey
1115	↓	↓	7.25	2.178	–	0.21	25.46	1.11	1.421	-145.2	↓
1117	↓	↓	7.23	2.225	–	0.08	25.51	1.14	1.447	-141.7	↓
	Sampled at 1118										
1129	0196	41-45	7.62	2.312	–	1.40	24.73	1.20	1.523	-103.2	grey
1131	↓	↓	7.32	2.361	–	1.84	24.91	1.22	1.550	-115.3	↓
1133	↓	↓	7.22	2.390	–	0.22	24.90	0.16	1.564	-117.2	↓
	Sampled at 1134										
1147	0196	56-60	7.66	3.998	–	7.29	25.06	2.61	3.224	-166.8	grey
1149	↓	↓	7.44	5.143	–	0.91	25.22	2.78	3.363	-178.5	↓
1151	↓	↓	7.45	5.167	–	0.12	25.16	2.75	3.337	-181.8	↓
	Sampled at 1152										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25 * 2

Date: 3/19/13 Crystal Towers

Time	2. DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1504	0196	66-70	7.32	6.437	—	7.23	30.19	3.18	3.866	-177.7	grey
1506	↓	↓	7.28	6.726	—	1.02	30.17	3.38	4.097	-182.9	↓
1508	↓	↓	7.28	7.091	—	0.17	30.14	3.55	4.296	-184.9	↓
Sampled at		1509									

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/18/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1255	0197	8-12	7.45	0.842	–	1.72	27.30	0.75	0.967	-117.8	grey
1257	↓	↓	7.22	1.534	–	2.59	27.23	0.73	0.942	-117.6	↓
1259	↓	↓	7.11	1.491	–	0.36	27.19	0.71	0.925	-113.5	↓
	Sampled at 1300										
1306	0197	16-20	7.23	1.423	–	3.12	26.77	0.68	0.891	-83.3	dk brown
1308	↓	↓	7.04	1.406	–	0.39	26.64	0.68	0.887	-85.9	↓
1310	↓	↓	6.99	1.410	–	0.09	26.61	0.68	0.891	-87.3	↓
	Sampled at 1311										
1316	0197	21-25	↑	↑	–	↑	↑	↑	↑	↑	↑
1318	↓	↓	7.39	1.430	–	2.33	26.71	0.69	0.906	-76.4	grey
1320	↓	↓	7.07	1.443	–	0.29	26.72	0.70	0.911	-80.6	↓
	Sampled at 1321		7.02	1.449		0.17	26.69	0.70	0.914	-83.6	↓
1329	0197	26-30	7.46	1.458	–	4.20	26.68	0.70	0.914	-75.8	grey
1331	↓	↓	7.11	1.450	–	0.24	26.67	0.70	0.941	-83.0	↓
1333	↓	↓	7.03	1.458	–	0.11	26.74	0.70	0.919	-83.7	↓
	Sampled at 1334										
1344	0197	31-35	7.56	1.177	–	0.52	26.99	0.56	0.740	-171.5	grey
1346	↓	↓	7.51	1.191	–	0.06	27.00	0.57	0.751	-176.0	↓
1348	↓	↓	7.50	1.206	–	0.04	27.02	0.58	0.761	-180.3	↓
	Sampled at 1349										
1355	0197	36-40	7.73	2.195	–	6.78	26.59	1.12	1.435	-112.5	grey
1357	↓	↓	7.27	2.343	–	0.50	26.83	1.18	1.506	-122.6	↓
1359	↓	↓	7.19	2.427	–	0.07	26.82	1.21	1.544	-119.4	↓
	Sampled at 1400										
1416	0197	41-45	7.39	2.373	–	0.37	26.52	1.18	1.507	-145.3	grey
1418	↓	↓	7.33	2.392	–	0.07	26.50	1.19	1.515	-149.0	↓
1420	↓	↓	7.31	2.399	–	0.04	26.49	1.19	1.518	-151.1	↓
	Sampled at 1421										
1441	0197	56-60	7.41	5.023	–	2.31	25.64	2.70	3.289	-161.5	grey
1443	↓	↓	7.42	5.162	–	0.24	25.61	2.75	3.345	-171.8	↓
1445	↓	↓	7.42	5.238	–	0.07	25.60	2.79	3.393	-176.9	↓
	Sampled at 1446										

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/18/13 Crystal Tolons

Time	AA DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1523	0198	8-12	7.81	0.737	–	8.02	24.68	0.62	0.796	-70.9	~~dk brown~~ grey
1525	↓	↓	7.51	1.158	–	1.96	24.54	0.56	0.726	-92.5	↓
1527	↓	↓	7.29	1.081	–	0.19	24.41	0.54	0.701	-91.6	↓
	Sampled at 1528										
1533	0198	16-20	7.44	1.220	–	4.64	25.95	0.60	0.788	-117.5	grey
1535	↓	↓	7.32	1.257	–	0.54	26.10	0.61	0.802	-125.5	↓
1537	↓	↓	7.27	1.266	–	0.10	26.09	0.62	0.809	-128.7	↓
	Sampled at 1538										
1543	0198	21-25	7.14	1.364	–	1.18	25.78	0.67	0.877	-63.1	grey
1545	↓	↓	7.00	1.374	–	0.15	25.76	0.68	0.883	-65.6	↓
1547	↓	↓	6.94	1.381	–	0.08	25.74	0.68	0.887	-67.0	↓
	Sampled at 1548										
1555	0198	26-30	7.21	1.472	–	1.53	25.61	0.73	0.951	-74.9	grey
1557	↓	↓	7.07	1.486	–	0.19	25.61	0.74	0.957	-80.2	↓
1559	↓	↓	7.02	1.491	–	0.06	25.59	0.74	0.960	-85.0	↓
	Sampled at 1600										
1606	0198	31-35	7.20	1.472	–	1.26	25.12	0.74	0.957	-70.0	grey
1608	↓	↓	7.08	1.477	–	0.18	25.10	0.74	0.959	-76.2	↓
1610	↓	↓	7.03	1.481	–	0.07	2511	0.74	0.961	-79.7	↓
	Sampled at 1611										
1618	0198	36-40	7.47	1.989	–	2.53	25.41	1.03	1.317	-94.2	grey
1620	↓	↓	7.18	2.072	–	0.34	25.17	1.05	1.339	-117.4	↓
1622	↓	↓	7.11	2.096	–	0.06	25.17	1.05	1.347	-120.4	↓
	Sampled at 1623										
1633	0198	41-45	7.37	2.177	–	0.70	25.49	1.13	1.441	-136.9	grey
1635	↓	↓	7.32	2.264	–	0.09	25.48	1.15	1.465	-147.6	↓
1637	↓	↓	7.31	2.278	–	0.04	25.47	1.16	1.469	-152.7	↓
	Sampled at 1638										
1650	0198	56-60	7.53	4.801	–	3.61	25.03	2.94	3.639	-91.4	grey
1652	↓	↓	7.39	5.760	–	0.42	25.06	3.17	3.818	-124.9	↓
1654	↓	↓	7.37	5.939	–	0.07	25.05	3.25	3.905	-137.6	↓
	Sampled at 1655										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/19/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0748	0199	8-12	6.71	1.103	–	1.38	21.04	0.60	0.777	-50.4	dk brown
0750	↓	↓	6.56	1.107	–	0.41	21.00	0.60	0.780	-51.5	↓
0752	↓	↓	6.52	1.108	–	0.39	20.98	0.60	0.780	-51.8	↓
	Sampled at 0753										
0759	0199	16-20	6.91	1.101	–	8.52	21.24	0.63	0.826	-98.0	dk brown
0801	↓	↓	6.87	1.202	–	2.75	21.65	0.64	0.839	-100.8	↓
0803	↓	↓	6.86	1.218	–	0.52	21.91	0.65	0.844	-99.0	↓
	Sampled at 0804										
0813	0199	21-25	7.18	1.163	–	1.72	22.32	0.61	0.802	-121.8	brown
0815	↓	↓	7.09	1.183	–	0.26	22.92	0.61	0.803	-112.0	↓
0817	↓	↓	7.01	1.189	–	0.13	22.98	0.62	0.803	-106.9	↓
	Sampled at 0818										
0825	0199	26-30	7.10	1.251	–	1.77	21.70	0.67	0.872	-65.1	brown
0827	↓	↓	6.90	1.263	–	0.28	21.77	0.68	0.879	-65.8	↓
0829	↓	↓	6.84	1.272	–	0.14	21.78	0.68	0.883	-67.2	↓
	Sampled at 0830										
0839	0199	31-35	7.34	1.263	–	5.06	21.67	0.69	0.903	-122.7	grey
0841	↓	↓	7.13	1.323	–	0.33	22.07	0.71	0.918	-124.2	↓
0843	↓	↓	7.08	1.339	–	0.08	22.20	0.71	0.922	-125.8	↓
	Sampled at 0844										
0852	0199	36-40	7.37	1.682	–	5.23	21.74	0.93	1.198	-129.2	grey
0854	↓	↓	7.13	1.782	–	0.60	22.11	0.97	1.252	-140.2	↓
0856	↓	↓	7.11	1.856	–	0.07	22.08	1.01	1.298	-143.7	↓
	Sampled at 0857										
0907	0199	41-45	7.40	2.306	–	6.91	22.26	1.27	1.605	-92.2	grey
0909	↓	↓	7.14	2.379	–	1.22	22.70	1.30	1.652	-101.8	↓
0911	↓	↓	7.06	2.458	–	0.15	22.87	1.33	1.681	-103.0	↓
	Sampled at 0912										
0926	0199	56-60	7.54	2.331	–	6.48	22.48	2.20	2.882	-134.1	grey
0928	↓	↓	7.28	4.507	–	1.70	22.74	2.56	3.107	-163.5	↓
0930	↓	↓	7.28	4.591	–	0.19	22.72	2.58	3.135	-170.4	↓
	Sampled at 0931										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/19/13 Crystal Towns

Time	AC DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1006	0200	8-12	7.12	1.046	–	6.81	21.90	0.53	0.687	-64.6	dk brown
1008	↓	↓	7.29	0.979	–	1.00	22.10	0.51	0.666	-72.0	↓
1010	↓	↓	7.10	0.964	–	0.23	22.15	0.50	0.659	-72.5	↓
	Sampled at 1011										
1016	0200	16-20	6.99	1.160	–	0.26	23.35	0.60	0.782	-73.8	brown
1018	↓	↓	6.93	1.168	–	0.08	23.38	0.60	0.786	-76.3	↓
1020	↓	↓	6.91	1.175	–	0.05	23.43	0.60	0.789	-78.1	↓
	Sampled at 1021										
1031	0200	21-25	7.12	1.452	–	3.91	24.67	0.74	0.963	-64.9	grey
1033	↓	↓	6.88	1.484	–	0.47	24.82	0.75	0.972	-68.1	↓
1035	↓	↓	6.79	1.496	–	0.07	24.99	0.75	0.977	-69.5	↓
	Sampled at 1036										
1042	0200	26-30	7.34	1.730	–	5.53	24.20	0.89	1.145	-78.0	grey
1044	↓	↓	6.94	1.744	–	0.71	24.25	0.90	1.154	-93.9	↓
1046	↓	↓	6.85	1.754	–	0.12	24.24	0.90	1.161	-97.8	↓
	Sampled at 1047										
1057	0200	31-35	7.48	1.756	–	6.50	24.60	1.07	1369	-96.2	grey
1059	↓	↓	7.05	2.123	–	0.93	25.02	1.09	1.391	-105.6	↓
1101	↓	↓	6.91	2.152	–	0.14	25.33	1.09	1.393	-104.2	↓
	Sampled at 1102										
1113	0200	36-40	7.44	1.180	–	5.80	25.15	1.16	1.417	-114.7	grey
1115	↓	↓	7.17	2.299	–	1.82	25.69	1.16	1.417	-131.3	↓
1117	↓	↓	7.09	2.305	–	0.21	25.74	1.16	1.419	-136.8	↓
	Sampled at 1118										
1129	0200	41-45	7.59	2.430	–	7.06	25.60	1.26	1.595	-92.9	grey
1131	↓	↓	7.23	2.505	–	1.34	25.55	1.29	1.630	-110.6	↓
1133	↓	↓	7.11	2.550	–	0.18	25.56	1.31	1.652	-113.0	↓
	Sampled at 1134										
1147	0200	56-60	7.53	3.177	–	8.34	25.70	2.51	3182	-111.3	grey
1149	↓	↓	7.36	5.267	–	1.49	25.62	2.82	3.440	-139.1	↓
1151	↓	↓	7.32	5.396	–	0.13	25.70	2.86	3.456	-146.9	↓
	Sampled at 1152										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/19/13 Crystal Forms

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1253	0201	8-12	7.56	1.425	–	6.12	27.03	0.67	0.876	-17.5	dk brown
1255	↓	↓	7.08	1.381	–	0.94	26.82	0.66	0.853	-31.9	↓
1257	↓	↓	6.86	1.347	–	0.34	26.82	0.64	0.842	-36.0	↓
	Sampled at 1258										
1303	0201	16-20	7.39	1380	–	6.22	30.22	0.62	0.824	-79.3	dk brown
1305	↓	↓	7.05	1.402	–	1.08	29.12	0.64	0.845	-103.0	↓
1307	↓	↓	6.95	1.389	–	0.19	27.69	0.66	0.861	-107.2	↓
	Sampled at 1308										
1319	0201	21-25	7.02	1.307	–	0.82	28.77	0.60	0.793	-73.4	brown
1321	↓	↓	6.91	1.309	–	0.15	28.65	0.60	0.795	-75.1	↓
1323	↓	↓	6.88	1.309	–	0.08	28.69	0.60	0.795	-76.9	↓
	Sampled at 1324										
1332	0201	26-30	6.89	1.447	–	0.29	28.74	0.67	0.878	-89.0	grey
1334	↓	↓	6.84	1.448	–	0.08	28.72	0.67	0.879	-89.5	↓
1336	↓	↓	6.82	1.449	–	0.05	28.73	0.67	0.880	-89.4	↓
	Sampled at 1337										
1344	0201	31-35	7.28	1.440	–	1.71	30.01	0.65	0.861	-138.1	grey
1346	↓	↓	7.14	1.446	–	0.23	29.35	0.66	0.870	-140.9	↓
1348	↓	↓	7.09	1.447	–	0.06	29.02	0.67	0.876	-137.6	↓
	Sampled at 1349										
1357	0201	36-40	7.38	2.039	–	6.29	28.82	0.99	1.290	-111.1	grey
1359	↓	↓	7.10	2.190	–	1.18	28.75	1.04	1.335	-121.6	↓
1401	↓	↓	7.04	2.211	–	0.16	28.72	1.05	1.345	-122.7	↓
	Sampled at 1402										
1412	0201	41-45	7.65	2.179	–	8.32	29.67	1.07	1.383	-118.7	grey
1414	↓	↓	7.18	2.359	–	1.47	29.46	1.12	1.444	-134.8	↓
1416	↓	↓	7.07	2.441	–	0.21	29.35	1.16	1.487	-131.2	↓
	Sampled at 1417										
1429	0201	56-60	7.64	3.433	–	7.19	28.80	2.71	3.519	-114.1	grey
1431	~~1429~~ CF	↓	7.23	6.413	–	3.01	28.57	3.39	4.091	-150.9	↓
1433	~~1431~~ CF	↓	7.18	6.749	–	0.37	28.47	3.43	4.110	-160.7	↓
	~~1433~~ Sampled at 1434										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/20/13 Crystal TANKS

Time	✓ DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0805	0202	8-12	6.91	0.824	–	5.56	20.98	0.44	0.581	-43.1	dk brown
0807	↓	↓	6.63	0.828	–	1.30	21.07	0.44	0.583	-52.2	↓
0809	↓	↓	6.53	0.831	–	0.62	21.09	0.44	0.584	-57.0	↓
	Sampled at 0810										
0815	0202	16-20	6.98	0.951	–	4.73	21.45	0.51	0.673	-27.7	grey
0817	↓	↓	6.80	0.974	–	0.94	22.19	0.51	0.669	-35.7	↓
0819	↓	↓	6.74	0.978	–	0.23	22.29	0.51	0.671	-37.3	↓
	Sampled at 0820										
0825	0202	21-25	7.04	@ ~~1.140~~	–	1.63	22.17	0.60	0.790	-74.4	grey
0827	↓	↓	6.86	1.160	–	0.31	22.22	0.61	0.803	-81.4	↓
0829	↓	↓	6.80	1.180	–	0.11	22.34	0.62	0.811	-84.1	↓
	Sampled at 0830										
0837	0202	26-30	6.93	1.207	–	0.44	21.85	0.65	0.840	-51.3	grey
0839	↓	↓	6.82	1.220	–	0.11	21.99	0.65	0.846	-49.3	↓
0841	↓	↓	6.77	1.231	–	0.08	21.99	0.66	0.853	-49.9	↓
	Sampled at 0842										
0851	0202	31-35	7.48	0.605	–	4.47	21.36	0.59	0.765	-51.3	grey
0853	↓	↓	7.16	1.083	–	1.22	22.03	0.58	0.761	-74.6	↓
0855	↓	↓	6.97	1.122	–	0.19	22.20	0.60	0.778	-68.1	↓
	Sampled at 0856										
0905	0202	36-40	7.27	1.552	–	5.22	22.12	0.88	1.144	-81.1	grey
0907	↓	↓	7.04	1.752	–	0.71	22.90	0.94	1.209	-82.0	↓
0909	↓	↓	6.94	1.808	–	0.15	23.29	0.95	1.223	-77.0	↓
	Sampled at 0910			@							
0920	0202	41-45	7.63	~~0~~ 2.044	–	4.91	22.81	1.10	1.408	-66.6	grey
0922	↓	↓	7.14	2.102	–	0.90	23.08	1.12	1.429	-80.0	↓
0924	↓	↓	7.06	2.132	–	0.21	23.39	1.13	1.438	-83.1	↓
	Sampled at 0925										
0936	0202	56-60	7.51	3.558	–	4.13	22.48	2.05	2.555	-130.6	grey
0938	↓	↓	7.29	3.797	–	0.29	22.70	2.13	2.626	-142.3	↓
0940	↓	↓	7.29	3.889	–	0.08	22.69	2.17	2.612	-146.6	↓
	Sampled at 0941										

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

CRHE

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681/25*2

Date: 3/21/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1547	0202	66-70	7.48	4.920	—	8.01	22.85	2.50	3.420	-97.5	grey
1549	↓	↓	7.31	5.252	—	2.16	23.32	2.96	3.572	-128.7	↓
1551	↓	↓	7.31	5.368	—	1.11	23.28	3.02	3.641	-140.1	↓
	Sampled	at	1552								

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/20/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1251	0203	8-12	7.86	0.896	–	8.87	24.45	0.45	0.590	-19.9	dk brown
1253	↓	↓	7.17	0.899	–	2.36	24.32	0.45	0.595	-44.9	↓
1255	↓	↓	6.92	0.904	–	0.60	24.34	0.45	0.594	-49.7	↓
	Sampled at 1256										
1303	0203	16-20	7.40	1.068	–	8.01	25.50	0.53	0.699	-37.3	grey
1305	↓	↓	7.00	1.094	–	2.14	25.66	0.54	0.708	-52.6	↓
1307	↓	↓	6.86	1.113	–	0.48	25.70	0.55	0.724	-53.0	↓
	Sampled at 1308										
1313	0203	21-25	7.42	1.026	–	7.28	25.77	0.50	0.663	-101.3	grey
1315	↓	↓	7.11	1.051	–	1.93	26.21	0.51	0.683	-110.8	↓
1317	↓	↓	6.96	1.084	–	0.19	26.33	0.52	0.693	-113.6	↓
	Sampled at 1318										
1325	0203	26-30	7.43	1.107	–	5.62	25.44	0.54	0.717	-63.7	grey
1327	↓	↓	7.03	1.117	–	1.50	25.74	0.55	0.718	-77.6	↓
1329	↓	↓	6.89	1.125	–	0.13	25.86	0.55	0.722	-65.3	↓
	Sampled at 1330										
1337	0203	31-35	7.45	1.120	–	4.82	24.98	0.56	0.735	-77.0	grey
1339	↓	↓	6.96	1.148	–	1.37	25.32	0.57	0.750	-97.1	↓
1341	↓	↓	6.86	1.170	–	0.16	25.51	0.58	0.757	-99.5	↓
	Sampled at 1342										
1352	0203	36-40	6.98	1.758	–	0.24	25.56	0.88	1.141	-80.5	grey
1354	↓	↓	6.91	1.789	–	0.05	25.80	0.90	1.157	-77.9	↓
1356	↓	↓	6.87	1.829	–	0.04	25.90	0.92	1.182	-72.0	↓
	Sampled at 1357										
1407	0203	41-45	7.29	1.741	–	8.13	24.37	0.93	1.199	-61.9	grey
1409	↓	↓	7.07	1.848	–	1.88	24.94	0.95	1.216	-88.8	↓
1410	↓	↓	7.01	1.878	–	0.17	25.07	0.95	1.222	-96.0	↓
	Sampled at 1411										
1423	0203	56-60	7.30	2.976	–	5.13	24.69	2.00	2.565	-128.2	grey
1425	↓	↓	7.18	4.203	–	0.57	24.79	2.38	2.926	-148.9	↓
1427	↓	↓	7.19	4.596	–	0.05	24.86	2.51	3.071	-156.1	↓
	Sampled at 1428										

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/20/13/3/24/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1507	0204	8-12	~~7.197~~	~~0.026~~	–	~~5.60~~ 8.93	~~23.04~~ 21.67	0.55	0.706	-40.1	dk brown
1509	↓	↓	6.84	1.029	–	0.53	23.14	0.52	0.685	-42.2	↓
1511	↓	↓	6.69	1.006	–	0.12	23.14	0.51	0.672	-42.2	↓
	Sampled at 1512										
1518	0204	16-20	7.05	1.104	–	3.17	23.23	0.57	0.747	-48.9	grey
1520	↓	↓	6.83	1.132	–	0.33	24.20	0.58	0.757	-61.7	↓
1522	↓	↓	6.78	1.162	–	0.05	24.49	0.59	0.772	-62.0	↓
	Sampled at 1523										
1528	0204	21-25	7.39	0.959	–	6.10	23.61	0.49	0.654	-93.0	grey
1530	↓	↓	7.14	1.001	–	2.43	23.90	0.52	0.686	-118.5	↓
1532	↓	↓	7.03	1.056	–	0.28	24.26	0.54	0.712	-120.6	↓
	Sampled at 1533										
1538	0204	26-30	7.19	1.031	–	1.62	23.81	0.53	0.693	-73.8	grey
1540	↓	↓	7.05	1.049	–	0.28	23.86	0.53	0.704	-81.7	↓
1542	↓	↓	6.99	1.065	–	0.11	23.92	0.54	0.713	-84.4	↓
	Sampled at 1543										
0728	0204	31-35	6.82	0.975	–	8.23	17.81	0.58	0.755	41.1	grey
0730	↓	↓	6.44	1.016	–	1.25	18.40	0.58	0.758	-14.3	↓
0732	↓	↓	6.44	1.025	–	0.72	18.66	0.58	0.761	-42.4	↓
	Sampled at 0733										
0743	0204	36-40	7.07	1.361	–	7.94	15.77	0.86	1.115	-49.9	grey
0745	↓	↓	6.98	1.401	–	1.74	17.02	0.91	1.161	-73.9	↓
0747	↓	↓	6.93	1.551	–	0.33	18.28	0.91	1.166	-80.4	↓
	Sampled at 0748										
0756	0204	41-45	7.25	1.685	–	8.45	15.78	1.07	1.359	-35.9	grey
0758	↓	↓	7.08	1.859	–	2.30	18.22	1.12	1.419	-69.0	↓
0800	↓	↓	7.00	1.927	–	0.42	18.54	1.14	1.441	-78.6	↓
	Sampled at 0801										
0812	0204	56-60	7.15	3.633	–	2.40	15.62	2.42	2.960	-100.4	grey
0814	↓	↓	7.13	3.777	–	2.48	15.65	2.49	3.027	-113.2	↓
0816	↓	↓	7.14	3.853	–	0.12	15.65	2.56	3.101	-119.8	↓
	Sampled at 0817										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/21/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0836	0205	8-12	7.56	0.799	–	6.45	17.77	0.43	0.562	+15.1	dk brown
0838	↓	↓	7.13	0.733	–	0.96	18.83	0.41	0.535	9.2	↓
0840	↓	↓	6.93	0.723	–	0.26	19.00	0.40	0.528	7.0	↓
	Sampled at 0841										
0846	0205	16-20	7.09	0.829	–	7.39	19.78	0.47	0.617	-30.8	grey
0848	↓	↓	6.99	0.862	–	1.38	20.07	0.47	0.622	-55.4	↓
0850	↓	↓	6.97	0.873	–	0.33	20.27	0.48	0.625	-66.1	↓
	Sampled at 0851										
0856	0205	21-25	7.19	0.839	–	3.42	19.58	0.46	0.611	-12.6	grey
0858	↓	↓	7.04	0.848	–	0.74	19.95	0.47	0.612	-25.0	↓
0900	↓	↓	6.97	0.855	–	0.20	20.25	0.47	0.614	-31.0	↓
	Sampled at 0901									-2.1 (2)	
0905	0205	26-30	7.31	0.847	–	8.88	17.29	0.50	0.653	~~-21.1~~	grey
0907	↓	↓	7.03	0.884	–	1.67	18.87	0.50	0.651	-26.7	↓
0909	↓	↓	6.95	0.894	–	0.30	19.53	0.50	0.652	-32.4	↓
	Sampled at 0910										
0915	0205	31-35	7.22	0.841	–	6.08	19.20	0.47	0.620	-10.0	grey
0917	↓	↓	7.10	0.864	–	1.60	20.08	0.48	0.626	-87.0	↓
0919	↓	↓	7.03	0.884	–	0.31	20.98	0.47	0.624	-91.6	↓
	Sampled at 0920										
0926	0205	36-40	7.45	1.023	–	6.09	19.42	0.58	0.755	-57.5	grey
0928	↓	↓	7.25	1.060	–	1.45	20.89	0.57	0.747	-108.0	↓
0930	↓	↓	7.20	1.061	–	0.22	21.03	0.57	0.746	-123.5	↓
	Sampled at 0931										
0939	0205	41-45	7.47	1.434	–	6.79	18.95	0.88	1.133	-34.6	grey
0941	↓	↓	7.24	1.605	–	1.97	20.52	0.93	1.197	-80.2	↓
0943	↓	↓	7.08	1.764	–	0.24	21.71	0.98	1.259	-87.0	↓
	Sampled at 0944										
0953	0205	56-60	7.41	3.322	–	9.11	19.02	2.53	3.159	-1.1	grey
0955	↓	↓	7.18	4.598	–	1.72	20.28	2.79	3.369	-78.0	↓
0957	↓	↓	7.16	4.765	–	0.32	20.57	2.83	3.414	-100.5	↓
	Sampled at 0958										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/21/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1020	0206	8-12	7.45	0.540	–	10.70	19.30	0.53	0.692	14.9	dk brown
1022	↓	↓	7.39	0.932	–	4.96	19.93	0.51	0.660	-1.9	↓
1024	↓	↓	7.10	0.912	–	1.17	20.40	0.49	0.643	-10.1	↓
	Sampled at 1025										
1029	0206	16-20	7.13	0.911	–	2.00	20.81	0.49	0.647	-25.0	grey
1031	↓	↓	6.98	0.924	–	0.34	21.42	0.49	0.647	-41.2	↓
1033	↓	↓	6.93	0.936	–	0.10	21.87	0.49	0.649	-46.3	↓
	Sampled at 1034										
1039	0206	21-25	7.35	0.794	–	8.64	19.80	0.43	0.513	-14.3	grey
1041	↓	↓	7.16	0.805	–	2.69	20.62	0.43	0.513	-45.6	↓
1043	↓	↓	7.05	0.811	–	0.49	20.74	0.44	0.515	-59.1	↓
	Sampled at 1044										
1048	0206	26-30	7.39	0.401	–	7.64	19.49	0.31	0.446	-43.2	grey
1050	↓	↓	7.32	0.743	–	6.91	20.24	0.43	0.564	-110.2	↓
1052	↓	↓	7.25	0.804	–	1.48	20.83	0.44	0.576	-130.0	↓
	Sampled at 1053										
1101	0206	31-35	7.74	0.743	–	7.44	20.52	0.40	0.533	-79.6	grey
1103	↓	↓	7.45	0.765	–	1.57	21.42	0.40	0.536	-119.9	↓
1105	↓	↓	7.31	0.770	–	0.30	21.43	0.41	0.539	-132.2	↓
	Sampled at 1106										
1131	0206	36-40	7.14	1.211	–	0.82	21.89	0.66	0.860	-105.4	grey
1133	↓	↓	7.12	1.277	–	0.25	22.05	0.69	0.894	-109.8	↓
1135	↓	↓	7.11	1.313	–	0.16	22.28	0.70	0.905	-110.2	↓
	Sampled at 1136										
1145	0206	41-45	7.38	1.482	–	6.74	20.32	0.86	1.107	-68.4	grey
1147	↓	↓	7.17	1.587	–	1.55	20.73	0.89	1.139	-85.1	↓
1149	↓	↓	7.10	1.627	–	0.39	20.82	0.91	1.169	-92.6	↓
	Sampled at 1150										
1159	0206	56-60	7.17	5.062	–	7.29	21.02	2.97	3.554	-85.5	grey
1201	↓	↓	7.11	5.081	–	2.25	21.39	2.96	3.559	-110.9	↓
1203	↓	↓	7.09	5.095	–	0.58	21.30	2.98	3.575	-124.3	↓
	Sampled at 1204										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/21/13 Crystal Downs

Time	AB DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1343	0207	8-12	7.84	0.882	–	4.35	22.59	0.45	0.585	3.3	dk brown
1345	↓	↓	7.48	0.852	–	0.89	22.60	0.44	0.575	-20.1	↓
1347	↓	↓	7.24	0.838	–	0.39	22.63	0.43	0.567	-28.1	↓
	Sampled at 1348										
1353	0207	16-20	7.41	0.610	–	8.06	23.41	0.61	0.794	12.0	grey-brown
1355	↓	↓	7.05	1.199	–	3.35	23.72	0.61	0.802	-42.1	↓
1357	↓	↓	6.90	1.215	–	0.51	23.98	0.62	0.811	-62.6	↓
	Sampled at 1358										
1404	0207	21-25	7.14	1.299	✓	2.23	23.67	0.67	0.872	-31.9	grey-brown
1406	↓	↓	6.91	1.317	–	0.38	23.99	0.67	0.877	-41.4	↓
1408	↓	↓	6.81	1.331	–	0.10	24.23	0.68	0.881	-44.7	↓
	Sampled at 1409										
1414	0207	26-30	7.47	1.176	–	5.85	24.61	0.59	0.780	-21.7	grey
1416	↓	↓	7.28	1.211	–	2.17	24.83	0.61	0.800	-53.5	↓
1418	↓	↓	7.20	1.239	–	1.08	24.91	0.61	0.815	-68.3	↓
	Sampled at 1419										
1428	0207	31-35	7.44	1.778	–	9.11	22.99	0.95	1.224	-49.0	grey
1430	↓	↓	7.15	1.859	–	3.77	23.71	0.99	1.267	-78.0	↓
1432	↓	↓	7.00	1.929	–	0.66	24.01	1.01	1.288	-84.8	↓
	Sampled at 1433										
1441	0207	36-40	7.40	2.049	–	4.59	24.42	1.07	1.368	-47.3	grey
1443	↓	↓	7.09	2.116	–	0.93	24.89	1.09	1.394	-69.1	↓
1445	↓	↓	6.99	2.159	–	0.19	25.19	1.10	1.407	-70.8	↓
	Sampled at 1446										
1455	0207	41-45	7.12	2.110	–	2.26	24.04	1.10	1.405	-70.7	grey
1457	↓	↓	7.03	2.132	–	0.72	24.17	1.11	1.418	-77.4	↓
1459	↓	↓	6.97	2.160	–	0.19	24.29	1.12	1.430	-78.1	↓
	Sampled at 1500										
1513	0207	56-60	7.33	4.038	–	10.84	23.10	2.28	2.816	-116.7	grey
1515	↓	↓	7.26	4.356	–	3.48	23.41	2.52	3.089	-138.9	↓
1517	↓	↓	7.24	4.685	–	1.40	23.54	2.60	3.160	-146.8	↓
	Sampled at 1518										

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/21/13 - 3/22/13

Time	AE DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1632	0208	8-12	7.18	0.865	–	6.28	20.43	0.46	0.598	13.5	dk brown
1634	↓	↓	7.32	0.834	–	2.13	20.90	0.44	0.583	-30.0	↓
1636	↓	↓	7.20	0.824	–	1.21	20.92	0.44	0.579	-48.4	↓
	Sampled at 1637										
1642	0208	16-20	7.29	0.809	–	4.63	21.37	0.43	0.564	-29.1	dk brown
1644	↓	↓	7.19	0.811	–	1.76	21.70	0.43	0.562	-64.3	↓
1646	↓	↓	7.14	0.811	–	0.65	21.93	0.42	0.557	-82.2	↓
	Sampled at 1647										
1652	0208	21-25	7.26	1.010	–	6.70	21.92	0.53	0.702	-34.0	grey
1654	↓	↓	7.10	1.019	–	2.65	22.08	0.54	0.704	-56.0	↓
1656	↓	↓	7.03	1.027	–	0.90	22.20	0.54	0.707	-66.3	↓
	Sampled at 1658										
1705	0208	26-30	7.30	1.352	–	8.22	21.60	0.74	0.956	-17.4	grey
1707	↓	↓	7.05	1.419	–	2.26	23.04	0.75	0.969	-45.5	↓
1709	↓	↓	6.97	1.443	–	0.50	23.08	0.75	0.975	-55.3	↓
	Sampled at 1710										
1718	0208	31-35	7.16	0.875	–	8.33	21.32	0.95	1.207	-40.1	grey
1720	↓	↓	7.00	1.750	–	3.60	22.34	0.94	1.202	-75.5	↓
1722	↓	↓	6.91	1.773	–	0.70	22.71	0.94	1.209	-85.5	↓
	Sampled at 1723										
0734	0208	36-40	7.39	1.421	–	1.49	19.15	0.84	1.090	-74.2	grey
0736	↓	↓	7.17	1.571	–	0.45	20.74	0.90	1.156	-97.5	↓
0738	↓	↓	7.01	1.613	–	0.38	20.89	0.93	1.197	-100.4	↓
	Sampled at 0739										
0747	0208	41-45	8.66	1.160	–	2.25	18.16	0.68	0.882	-31.5	grey
0749	↓	↓	9.14	1.189	–	0.22	18.18	0.69	0.892	-27.8	↓
0751	↓	↓	9.40	1.201	–	0.13	18.35	0.70	0.904	-26.5	↓
	Sampled at 0752										
0806	0208	56-60	9.12	3.465	–	9.14	15.80	2.33	2.831	-0.9	grey
0808	↓	↓	8.56	3.699	–	1.56	17.43	2.33	2.840	-96.0	↓
0810	↓	↓	8.42	3.778	–	0.48	17.49	2.37	2.882	-136.3	↓
	Sampled at 0811										

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/22/13 Crystal Downs

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0858	0209	8-12	7.83	0.824	–	6.46	20.94	0.44	0.571	12.7	dk brown
0900	↓	↓	7.42	0.815	–	2.21	22.14	0.42	0.557	-17.3	↓
0902	↓	↓	7.12	0.817	–	0.67	22.57	0.42	0.556	-25.4	↓
	Sampled at 0903										
0908	0209	16-20	7.29	0.837	–	9.54	20.87	0.45	0.597	-71.7	dk brown
0910	↓	↓	6.97	0.886	–	0.68	23.02	0.45	0.601	-79.7	↓
0912	↓	↓	6.95	0.892	–	0.29	23.11	0.46	0.603	-85.1	↓
	Sampled at 0913										
0918	0209	21-25	7.47	0.912	–	6.68	21.74	0.51	0.664	-29.5	grey-brown
0920	↓	↓	7.18	0.976	–	3.01	22.80	0.51	0.668	-61.8	↓
0922	↓	↓	7.02	0.991	–	0.83	22.93	0.51	0.673	-75.2	↓
	Sampled at 0923										
0928	0209	26-30	7.47	0.669	–	9.33	21.32	0.52	0.678	-21.4	grey
0930	↓	↓	7.28	0.975	–	5.10	21.49	0.52	0.682	-50.2	↓
0932	↓	↓	7.11	0.978	–	1.54	21.15	0.52	0.687	-63.4	↓
	Sampled at 0933										
0939	0209	31-35	7.45	0.458	–	9.54	22.32	0.42	0.554	-54.0	grey
0941	↓	↓	7.25	0.831	–	3.18	23.67	0.42	0.560	-105.2	↓
0943	↓	↓	7.13	0.848	–	0.79	23.95	0.43	0.568	-122.7	↓
	Sampled at 0944										
0952	0209	36-40	7.66	1.064	–	5.02	23.45	0.56	0.735	-73.4	grey
0954	↓	↓	7.33	1.114	–	1.09	23.59	0.57	0.752	-122.1	↓
0956	↓	↓	7.25	1.136	–	0.29	23.90	0.58	0.759	-137.9	↓
	Sampled at 0957										
1007	0209	41-45	7.59	1.641	–	5.06	23.41	0.88	1.146	-31.7	grey
1009	↓	↓	7.35	1.751	–	1.15	23.84	0.93	1.195	-89.7	↓
1011	↓	↓	7.24	1.825	–	0.25	23.94	0.96	1.234	-109.6	↓
	Sampled at 1012										
1024	0209	56-60	7.42	2.839	–	8.58	22.64	2.29	2.930	-41.7	grey
1026	↓	↓	7.26	4.629	–	2.59	23.51	2.61	3.183	-112.5	↓
1028	↓	↓	7.21	4.801	–	0.83	23.68	2.65	3.214	-133.0	↓
	Sampled at 1029										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/22/13 Crystal Towns

Time	H DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1059	0210	8-12	7.61	1.202	–	8.19	23.80	0.61	0.791	-36.5	dk brown
1101	↓	↓	7.29	1.199	–	3.93	24.58	0.60	0.780	-67.1	↓
1103	↓	↓	7.05	1.185	–	1.84	24.67	0.59	0.772	-78.1	↓
	Sampled at 1104										
1108	0210	16-20	7.07	1.216	–	3.18	26.32	0.59	0.782	-89.6	grey
1110	↓	↓	6.93	1.257	–	1.08	26.79	0.61	0.798	-95.1	↓
1112	↓	↓	6.85	1.274	–	0.56	26.82	0.61	0.803	-96.7	↓
	Sampled at 1113										
1117	0210	21-25	7.20	1.246	–	5.42	26.12	0.61	0.795	-45.3	grey
1119	↓	↓	6.94	1.267	–	1.39	26.56	0.61	0.804	-58.9	↓
1121	↓	↓	6.82	1.282	–	0.41	26.94	0.61	0.806	-62.7	↓
	Sampled at 1122										
1126	0210	26-30	7.42	1.173	–	5.63	25.47	0.60	0.782	-10.8	grey
1128	↓	↓	7.07	1.231	–	1.63	26.99	0.59	0.772	-32.2	↓
1130	↓	↓	6.89	1.242	–	0.24	27.56	0.59	0.771	-41.1	↓
	Sampled at 1131										
1136	0210	31-35	7.41	1.218	–	5.97	25.73	0.61	0.802	-37.0	grey
1138	↓	↓	7.10	1.271	–	1.40	26.93	0.61	0.798	-78.7	↓
1140	↓	↓	6.95	1.282	–	0.17	27.20	0.61	0.803	-92.7	↓
	Sampled at 1141										
1147	0210	36-40	7.46	1.574	–	5.09	26.01	0.79	1.028	-57.7	grey
1149	↓	↓	7.10	1.648	–	4.60	26.58	0.83	1.092	-97.0	↓
1151	↓	↓	6.95	1.809	–	0.15	27.27	0.91	1.179	-102.9	↓
	Sampled at 1152										
1159	0210	41-45	7.32	2.063	–	1.41	25.00	1.06	1.361	-96.9	grey
1201	↓	↓	7.20	2.115	–	0.18	24.96	1.09	1.394	-126.9	↓
1203	↓	↓	7.15	2.159	–	0.07	24.97	1.11	1.418	-138.4	↓
	Sampled at 1204										
1214	0210	56-60	7.27	4.844	–	6.34	24.87	2.62	3.180	-24.6	grey
1216	↓	↓	7.12	4.971	–	1.03	25.73	2.64	3.210	-92.5	↓
1218	↓	↓	7.08	5.036	–	0.08	25.76	2.66	3.238	-122.5	↓
	Sampled at 1219										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/22/13 – 3/25/13 Crystal Towns

Time	Q DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1241	0211	8-12	7.63	0.541	–	7.90	25.56	0.50	0.660	-41.5	dk. brown
1243	↓	↓	7.28	1.027	–	4.02	25.90	0.49	0.652	-78.2	↓
1245	↓	↓	7.00	1.009	–	1.02	25.61	0.49	0.641	-80.0	↓
	Sampled at 1246										
0805	0211	16-20	6.58	6.117	–	6.91	21.06	0.60	0.786	72.5	brown
0807	↓	↓	6.11	1.142	–	2.32	22.12	0.61	0.794	37.7	↓
0809	↓	↓	6.03	1.161	–	0.44	22.58	0.61	0.794	7.6	↓
	Sampled at 0810										
0816	0211	21-25	7.09	1.144	–	7.64	21.25	0.62	0.810	-31.3	brown
0818	↓	↓	6.88	1.198	–	2.00	22.80	0.62	0.822	-65.0	↓
0820	↓	↓	6.77	1.215	–	0.51	22.75	0.64	0.829	-77.9	↓
	Sampled at 0821										
0826	0211	26-30	7.13	1.207	–	6.36	20.74	0.66	0.862	-23.2	grey
0828	↓	↓	6.93	1.240	–	1.44	21.99	0.67	0.866	-38.4	↓
0830	↓	↓	6.81	1.285	–	0.31	23.14	0.67	0.875	-47.7	↓
	Sampled at 0831										
0839	0211	31-35	7.24	1.151	–	6.69	21.20	0.63	0.819	-30.0	grey
0841	↓	↓	7.06	1.172	–	2.54	21.80	0.63	0.819	-69.0	↓
0843	↓	↓	6.94	1.196	–	0.35	22.28	0.63	0.826	-89.6	↓
	Sampled at 0844										
0851	0211	36-40	7.28	1.020	–	7.92	21.62	0.81	1.057	-24.6	grey
0853	↓	↓	7.12	1.567	–	3.00	22.31	0.85	1.095	-70.8	↓
0855	↓	↓	7.05	1.629	–	0.44	22.93	0.86	1.114	-94.6	↓
	Sampled at 0856										
0905	0211	41-45	7.31	2.014	–	6.51	21.34	1.13	1.429	-18.9	grey
0907	↓	↓	7.16	2.095	–	2.29	22.24	1.14	1.453	-59.1	↓
0909	↓	↓	7.08	2.125	–	0.45	22.28	1.15	1.459	-80.9	↓
	Sampled at 0910										
0923	0211	56-60	7.34	2.192	–	6.78	21.60	2.46	3.005	-36.7	grey
0925	↓	↓	7.11	4.470	–	3.31	22.50	2.56	3.119	-112.9	↓
0927	↓	↓	7.09	4.649	–	0.51	22.75	2.64	3.206	-136.5	↓
	Sampled at 0928										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/25/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0952	0212	8-12	7.44	1.100	–	7.09	20.93	0.59	0.756	-20.4	dk brown
0954	↓	↓	7.50	1.066	–	2.41	22.31	0.55	0.713	-23.1	↓
0956	↓	↓	7.28	1.029	–	0.59	22.61	0.53	0.687	-32.9	↓
	Sampled at 0957										
1001	0212	16-20	7.20	1.007	–	4.66	22.21	0.53	0.689	-43.5	brown
1003	↓	↓	7.06	1.018	–	1.29	23.45	0.52	0.681	-63.3	↓
1005	↓	↓	6.98	1.037	–	0.30	24.00	0.52	0.690	-74.3	↓
	Sampled at 1006										
1011	0212	21-25	7.34	0.992	–	5.40	23.21	0.51	0.669	-40.9	grey
1013	↓	↓	7.16	1.009	–	1.12	24.02	0.51	0.671	-67.5	↓
1015	↓	↓	7.08	1.019	–	0.30	24.20	0.51	0.676	-81.9	↓
	Sampled at 1016										
1021	0212	26-30	7.28	1.108	–	~~0.47~~ 4.07 (CF) ~~0.47~~	23.43	0.57	0.742	-78.9	grey
1023	↓	↓	7.08	1.118	–	0.76	24.26	0.56	0.763	-83.0	↓
1025	↓	↓	6.95	1.129	–	~~0.56~~ 0.13 (CF)	24.66	0.57	0.745	-88.6	↓
	Sampled at 1026										
1033	0212	31-35	7.41	1.065	–	6.60	22.54	0.55	0.721	-41.1	grey
1035	↓	↓	7.18	1.058	–	1.76	23.36	0.54	0.704	-98.2	↓
1037	↓	↓	7.08	1.057	–	0.28	24.03	0.53	0.702	-118.9	↓
	Sampled at 1038										
1048	0212	36-40	7.30	1.397	–	4.13	23.93	0.73	0.945	-48.9	grey
1050	↓	↓	7.17	1.445	–	0.75	24.44	0.74	0.954	-80.2	↓
1052	↓	↓	7.11	1.456	–	~~0.43~~ 0.13 (CF)	24.63	~~0.8~~ 0.73 (CF)	0.945	-104.0	↓
	Sampled at 1053										
1103	0212	41-45	7.42	1.963	–	4.70	23.33	1.07	1.369	-30.1	grey
1105	↓	↓	7.15	2.104	–	0.51	24.50	1.11	1.412	-72.3	↓
1107	↓	↓	7.04	2.178	–	0.12	24.83	1.12	1.432	-83.6	↓
	Sampled at 1108										
1120	0212	56-60	7.31	2.294	–	6.04	22.77	1.26	1.596	-20.0	grey
1122	↓	↓	7.18	3.999	–	5.66	23.99	2.45	3.026	-106.8	↓
1124	↓	↓	7.14	4.719	–	1.86	24.31	2.58	3.149	-142.1	↓
	Sampled at 1125										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/25/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1151	0213	8-12	7.10	0.659	–	7.23	22.03	0.63	0.815	-66.5	dk brown
1153	↓	↓	7.58	1.185	–	3.45	23.70	0.60	0.783	-79.3	↓
1155	↓	↓	7.27	1.171	–	0.89	23.82	0.60	0.779	-95.5	↓
	Sampled at 1156										
1200	0213	16-20	7.23	1.299	–	4.72	24.29	0.66	0.858	-42.4	brown
1202	↓	↓	6.95	1.316	–	1.44	25.11	0.66	0.859	-57.0	↓
1204	↓	↓	6.83	1.344	–	0.39	25.87	0.66	0.866	-68.8	↓
	Sampled at 1205										
1209	0213	21-25	7.32	1.219	–	5.12	24.36	0.62	0.814	-54.0	grey
1211	↓	↓	7.07	1.259	–	2.16	25.01	0.64	0.833	-94.1	↓
1213	↓	↓	6.95	1.308	–	0.43	25.22	0.66	0.862	-109.8	↓
	Sampled at 1214										
1305	0213	26-30			–						
1307	↓	↓	Low Yield = No Parameters Collected								
1309	↓	↓									
	Sampled at 1310										
1318	0213	31-35	7.67	1.235	–	4.46	24.87	0.62	0.819	-48.1	grey
1320	↓	↓	7.38	1.308	–	1.01	26.62	0.64	0.845	-102.6	↓
1322	↓	↓	7.19	1.369	–	0.46	27.25	0.66	0.864	-120.2	↓
	Sampled at 1323										
1329	0213	36-40	7.28	1.766	–	5.74	26.33	0.90	1.172	-79.6	grey
1331	↓	↓	7.06	1.924	–	1.57	27.32	0.96	1.246	-98.7	↓
1333	↓	↓	6.95	2.078	–	0.42	27.58	1.02	1.307	-105.2	↓
	Sampled at 1334										
1342	0213	41-45	7.27	1.269	–	5.80	24.88	1.19	1.512	-81.4	grey
1344	↓	↓	7.17	2.392	–	3.35	25.91	1.23	1.569	-111.6	↓
1346	↓	↓	7.07	2.509	–	0.96	26.16	1.26	1.605	-125.3	↓
	Sampled at 1347										
1358	0213	56-60	7.49	1.708	–	5.46	25.34	1.79	2.223	-16.6	grey
1400	↓	↓	7.32	3.501	–	3.04	26.28	1.79	2.224	-105.7	↓
1402	↓	↓	7.27	3.542	–	1.05	26.10	1.84	2.294	-144.6	↓
	Sampled at 1403										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

CRHE

DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681 /25*2

Date: 3/26/13 Crystal Towns

Time	K DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0746	0213	66-70	7.55	1.652	—	9.29	11.42	2.26	2.785	54.4	grey
0748	↓	↓	10.21	3.423	—	7.00	11.91	2.49	3.012	15.0	↓
0750	↓	↓	11.06	3.586	—	3.04	13.16	2.54	3.078	-11.5	↓
	Sampled at		0751								

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/25/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1429	0214	8-12	7.63	1.032	–	5.86	23.89	0.51	0.672	-39.1	dk brown
1431	↓	↓	7.51	1.007	–	3.32	24.58	0.58	0.652	-41.7	↓
1433	↓	↓	7.24	0.981	–	1.52	24.69	0.48	0.636	-54.4	↓
	Sampled at 1434										
1435	0214	16-20	6.86	1.366	–	4.14	26.59	0.66	0.857	-43.9	gray
1437	↓	↓	6.77	1.364	–	1.56	26.85	0.66	0.869	-58.6	↓
1439	↓	↓	6.72	1.395	–	0.73	26.79	0.67	0.882	-66.6	↓
	Sampled at 1440										
1444	0214	21-25	7.34	1.253	–	5.64	26.22	0.61	0.805	-32.9	grey
1446	↓	↓	7.19	1.285	–	3.00	26.71	0.62	0.820	-82.7	↓
1448	↓	↓	7.06	1.324	–	1.09	26.84	0.64	0.848	-101.6	↓
	Sampled at 1449										
1454	0214	26-30	7.29	1.345	–	4.42	26.21	0.66	0.866	-27.1	grey
1456	↓	↓	7.13	1.370	–	1.62	26.24	0.67	0.873	-37.1	↓
1458	↓	↓	7.04	1.378	–	0.59	26.19	0.67	0.878	-47.3	↓
	Sampled at 1459										
1504	0214	31-35	7.55	0.989	–	7.10	26.30	0.63	0.819	-3.6	grey
1506	↓	↓	7.32	1.305	–	3.68	27.32	0.62	0.814	-48.9	↓
1508	↓	↓	7.18	1.316	–	1.41	27.48	0.62	0.820	-79.7	↓
	Sampled at 1509										
1515	0214	36-40	7.61	1.291	–	7.16	24.79	0.65	0.853	-1.7	grey
1517	↓	↓	7.36	1.334	–	3.72	26.04	0.65	0.855	-29.7	↓
1519	↓	↓	7.21	1.346	–	1.72	25.99	0.66	0.862	-61.2	↓
	Sampled at 1520							(CF)			
1527	0214	41-45	7.51	2.230	–	7.25	25.10	1.20	1.528	3.5	grey
1529	↓	↓	7.22	2.431	–	3.40	26.38	1.22	1.554	-50.8	↓
1531	↓	↓	7.11	2.456	–	1.63	26.25	1.23	1.563	-85.4	↓
	Sampled at 1532										
1541	0214	56-60	7.47	3.704	–	7.22	25.19	2.01	2.491	4.6	grey
1543	↓	↓	7.31	3.986	–	3.39	26.23	2.10	2.606	-78.3	↓
1545	↓	↓	7.26	4.158	–	1.78	26.19	2.17	2.676	-125.8	↓
	Sampled at 1546										

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE/FR1601/25*2

Date: 03/26/2013 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1556	0214	66-70	6.62	1.927	—	6.40	21.51	1.69	2.250	-92.7	grey
1558	↓	↓	7.37	3.748	—	4.60	22.76	2.18	2.696	-103.0	↓
1600	↓	↓	7.36	4.098	—	2.01	22.69	2.33	2.861	-125.8	↓
	sampled at		1601								

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/26/13 Crystal Towns

Time	M DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0850	0215	8-12	9.46	0.913	–	4.03	18.10	0.53	0.689	-71.8	dk brown
0852	↓	↓	8.93	0.926	–	1.03	18.31	0.53	0693	-97.7	↓
0854	↓	↓	8.62	0.933	–	0.42	18.41	0.53	0.695	-112.3	↓
	Sampled at 0855										
0910	0215	16-20	7.26	0.902	–	0.17	13.74	0.57	0.736	-111.5	brown
0912	↓	↓	7.24	0.870	–	0.16	12.53	0.57	0.739	-110.2	↓
0914	↓	↓	7.22	0.863	–	0.11	12.40	0.57	0.742	-109.5	↓
	Sampled at 0915										
0922	0215	21-25	7.39	0.934	–	4.69	16.60	0.56	0.732	-60.7	grey
0924	↓	↓	7.24	0.998	–	2.73	19.84	0.57	0.740	-58.5	↓
0926	↓	↓	7.10	1.068	–	0.52	21.70	0.57	0.747	-56.7	↓
	Sampled at 0927										
0932	0215	26-30	7.31	0.483	–	8.20	15.65	0.29	0.443	-53.0	grey
0934	↓	↓	7.24	0.794	–	8.59	15.67	0.54	0.728	-57.5	↓
0936	↓	↓	7.18	0.946	–	5.73	15.96	0.57	0.745	-60.6	↓
	Sampled at 0937										
0944	0215	31-35	7.22	0.993	–	6.11	17.81	0.59	0.767	-57.4	grey
0946	↓	↓	7.05	1.052	–	1.50	19.19	0.60	0.778	-58.9	↓
0948	↓	↓	6.98	1.083	–	0.30	19.66	0.61	0.793	-61.3	↓
	Sampled at 0949										
0958	0215	36-40	7.18	1.318	–	6.39	16.99	0.87	1.117	-59.9	grey
1000	↓	↓	7.10	1.557	–	3.84	19.93	0.90	1.150	-64.4	↓
1002	↓	↓	7.03	1.657	–	0.67	21.37	0.93	1.193	-69.5	↓
	Sampled at 1003										
1011	0215	41-45	7.23	0.922	–	7.62	14.31	~~0~~ 1.09 (SP)	1.372	-75.9	grey
1013	↓	↓	7.20	1.770	–	7.24	17.30	1.10	1.391	-75.0	↓
1015	↓	↓	7.11	1.867	–	2.04	18.51	1.10	1.391	-77.1	↓
	Sampled at 1016										
1028	0215	56-60	7.02	3.312	–	0.03	18.81	2.00	2.449	-134.0	grey
1030	↓	↓	7.03	3.338	–	0.03	18.86	2.01	2.470	-139.9	↓
1032	↓	↓	7.05	3.373	–	0.02	19.05	2.03	2.485	-143.6	↓
	Sampled at 1033										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: ~~3/26/13~~ (2) 3/26/13

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1112	0216	8-12	7.62	0.499	–	9.40	16.93	0.49	0.637	-69.9	dk brown
1114	↓	↓	7.18	0.833	–	5.38	19.09	0.46	0.600	-55.1	↓
1116	↓	↓	7.51	0.819	–	1.85	19.23	0.45	0.591	-57.1	↓
	Sampled at 1117										
1123	0216	16-20	6.96	0.744	–	3.16	18.83	0.46	0.616	-54.3	brown
1125	↓	↓	6.89	0.887	–	2.19	20.31	0.49	0.652	-60.8	↓
1127	↓	↓	6.83	0.936	–	0.35	21.24	0.51	0.666	-68.1	↓
	Sampled at 1128										
1133	0216	21-25	7.03	0.519	–	6.12	17.40	0.53	0.693	-54.7	grey
1135	↓	↓	6.98	0.944	–	0.96	19.98	0.52	0.688	-52.1	↓
1137	↓	↓	6.89	0.973	–	0.64	20.92	0.53	0.690	-51.4	↓
	Sampled at 1138										
1143	0216	26-30	7.21	0.463	–	3.59	18.44	0.50	0.644	-30.4	grey
1145	↓	↓	7.19	0.808	–	2.49	(2) 21.06	0.48	0.630	-31.8	↓
1147	↓	↓	7.05	0.908	–	0.40	21.61	0.48	0.634	-33.8	↓
	Sampled at 1148										
1155	0216	31-35	7.28	0.908	–	6.81	18.98	0.51	0.665	-27.0	grey
1157	↓	↓	7.18	0.953	–	3.56	21.14	0.52	0.685	-27.1	↓
1159	↓	↓	7.07	0.989	–	0.63	21.50	0.53	0.694	-27.3	↓
	Sampled at 1200										
1207	0216	36-40	7.34	0.741	–	6.25	19.76	0.81	1.042	-9.7	grey
1209	↓	↓	7.08	1.530	–	2.42	21.69	0.85	1.096	-20.9	↓
1211	↓	↓	6.93	1.650	–	0.29	22.91	0.89	1.147	-30.8	↓
	Sampled at 1212										
1253	0216	41-45	7.55	1.854	–	8.84	20.72	1.04	1.328	-7.9	grey
1255	↓	↓	7.37	1.907	–	3.27	21.42	1.05	1.339	-24.0	↓
1257	↓	↓	7.26	1.928	–	0.95	21.56	1.06	1.350	-44.4	↓
	Sampled at 1258										
B10	0216	56-60	7.17	1.557	–	8.65	17.98	1.87	2.301	-9.7	grey
1312	↓	↓	7.12	3.165	–	6.41	19.61	1.87	2.306	-41.6	↓
1314	↓	↓	7.11	3.221	–	2.71	19.89	1.90	2.350	-70.8	↓
	Sampled at 1315										

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 3/27/13

Time	P DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1537 ~~1539~~ 1539	0216	60-70	6.88	2.480	—	6.80	23.01	2.66	3.223	-28.3	grey
~~1539~~ 1539	↓	↓	6.82	4.916	—	4.76	23.62	2.76	3.354	-38.0	↓
~~1541~~ 1541	↓	↓	6.79	5.196	—	2.13	24.05	2.93	3.555	-76.4	↓
1541	Sampled at		~~6.42~~								
			1542								

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/26/13 Crystal Towns

Time	BG DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1350	0217	8-12	7.32	0.424	–	8.40	17.78	0.44	0.574	-102.3	dk brown
1352	↓	↓	7.81	0.776	–	6.21	20.14	0.42	0.547	-84.6	↓
1354	↓	↓	7.75	0.751	–	3.61	20.56	0.40	0.522	-75.4	↓
	Sampled at 1355										
1359	0217	16-20	6.91	1.045	–	7.16	20.91	0.58	0.756	-49.4	brown
1401	↓	↓	6.77	1.098	–	3.69	21.96	0.58	0.764	-54.0	↓
1403	↓	↓	6.71	1.115	–	1.65	22.27	0.59	0.766	-58.3	↓
	Sampled at 1404										
1408	0217	21-25	7.11	0.585	–	7.12	19.57	0.63	0.811	-37.2	grey
1410	↓	↓	6.98	1.175	–	5.60	21.57	0.64	0.834	-41.5	↓
1412	↓	↓	6.86	1.215	–	2.17	21.73	0.65	0.857	-45.5	↓
	Sampled at 1413										
1418	0217	26-30	7.08	1.113	–	4.81	19.36	0.63	0.815	-40.4	grey
1420	↓	↓	6.97	1.158	–	2.78	20.61	0.64	0.832	-40.3	↓
1422	↓	↓	6.90	1.171	–	0.65	20.83	0.64	0.832	-41.7	↓
	Sampled at 1423										
1428	0217	31-35	7.05	1.577	–	7.68	19.95	0.90	1.158	-35.5	grey
1430	↓	↓	6.93	1.655	–	2.78	21.45	0.91	1.165	-43.4	↓
1432	↓	↓	6.86	1.700	–	0.50	22.32	0.92	1.177	-49.9	↓
	Sampled at 1433										
1441	~~0~~ 0217	36-40	7.22	0.922	–	8.22	20.16	1.00	1.263	-42.6	grey
1443	↓	↓	7.13	1.826	–	5.09	22.44	0.99	1.262	-47.6	↓
1445	↓	↓	7.03	1.862	–	1.27	22.75	0.99	1.270	-56.7	↓
	Sampled at 1446										
1455	0217	41-45	7.19	0.934	–	7.84	19.10	1.01	1.275	-39.8	grey
1457	↓	↓	7.15	~~6~~ 1.805	–	5.84	21.30	1.00	1.282	-43.4	↓
1459	↓	↓	7.06	1.847	–	1.74	21.39	1.02	1.296	-50.6	↓
	Sampled at 1500										
1512	0217	56-60	7.19	1.455	–	6.43	19.95	1.78	2.206	-31.9	grey
1514	↓	↓	7.04	3.127	–	4.30	21.17	1.78	2.199	-51.9	↓
1516	↓	↓	7.03	3.148	–	1.24	21.34	1.78	2.200	-70.9	↓
	Sampled at 1517										

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE-FR1681-25*2

Date: 3/27/13 Crystal Towns

Time	BG DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1620	0217	66-70	6.92	3.253	—	7.41	19.85	2.53	3.156	-57.8	grey
1622	↓	↓	7.06	4.615	—	4.20	20.51	2.80	3.421	-57.7	↓
1624	↓	↓		4.999	—	1.90	21.84	3.00	3.646	-61.6	↓
	Sampled by		1625								

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

AD

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/27/13 Crystal Towns

Time	~~021~~ AD DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0744	0218	8-12	7.40	0.777	–	10.03	12.26	0.51	0.653	-53.2	dk brown
0746	↓	↓	7.57	0.767	–	5.02	13.94	0.48	0.625	-48.5	↓
0748	↓	↓	7.32	0.757	–	1.70	14.27	0.47	0.611	-43.6	↓
	Sampled at 0749										
0754	0218	16-20	6.39	0.839	–	9.27	12.97	0.54	0.700	-38.3	grey
0756	↓	↓	6.43	0.853	–	4.40	15.44	0.52	0.684	-45.6	↓
0758	↓	↓	6.38	0.866	–	1.11	15.45	0.53	0.692	-50.2	↓
	Sampled at 0759										
0805	0218	21-25	6.53	0.395	–	4.97	13.47	0.41	0.558	-63.4	grey
0807	↓	↓	6.54	0.754	–	4.12	15.64	0.47	0.621	-71.5	↓
0809	↓	↓	6.54	0.810	–	0.64	16.83	0.48	0.632	-78.8	↓
	Sampled at 0810										
0817	0218	26-30	6.52	0.667	–	8.81	13.11	0.54	0.728	-65.1	grey
0819	↓	↓	6.48	0.905	–	4.61	1384	0.59	0.766	-73.5	↓
0821	↓	↓	6.45	0.947	–	0.80	14.54	0.60	0.775	-81.8	↓
	Sampled at 0822										
0832	0218	31-35	6.53	0.721	–	7.07	13.24	0.91	1.154	-63.5	grey
0834	↓	↓	6.38	1.412	–	5.04	14.66	0.91	1.167	-70.6	↓
0836	↓	↓	6.35	1.471	–	1.36	15.46	0.91	1.186	-76.7	↓
	Sampled at 0837										
0846	0218	36-40	6.55	0.768	–	5.24	13.24	0.85	1.073	-65.3	grey
0848	↓	↓	6.51	1.334	–	4.31	15.41	0.84	1.072	-70.0	↓
0850	↓	↓	6.46	1.387	–	1.31	16.97	0.84	1.079	-74.6	↓
	Sampled at 0851										
0902	0218	41-45	6.63	1.465	–	5.10	13.77	0.95	1.207	-65.5	grey
0904	↓	↓	6.56	1.482	–	5.67	14.45	0.95	1.214	-68.9	↓
0906	↓	↓	6.52	1.509	–	4.14	14.78	0.97	1.236	-72.9	↓
	Sampled at 0907										
~~0934~~ 0926	0218	56-60	6.52	2.832	–	5.41	13.19	1.97	2.441	-46.9	grey
0926	↓	↓	6.34	3.145	–	2.61	15.34	2.14	2.621	-62.5	↓
0928	↓	↓	6.39	3.330	–	0.27	15.47	2.18	2.652	-76.6	↓
	Sampled at 0929										

Notes:

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

ate: 3/27/13 Crystal Towns

Time	BH DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1001	0219	8-12	7.50	0.874	–	6.98	16.74	0.51	0.662	-70.4	dk brown
1003	↓	↓	7.34	0.861	–	2.30	17.96	0.49	0.643	-64.6	↓
1005	↓	↓	7.07	0.854	–	0.65	18.14	0.49	0.636	-64.2	↓
	Sampled at 1006										
1023	0219	16-20	6.90	0.415	–	8.28	17.97	0.46	0.600	-59.6	brown
1025	↓	↓	6.87	0.822	–	5.80	20.04	0.45	0.596	-64.1	↓
1027	↓	↓	6.80	0.844	–	1.98	21.02	0.45	0.595	-69.0	↓
	Sampled at 1028										
1036	0219	21-25	6.82	0.851	–	8.22	19.67	0.47	0.624	-67.0	grey
1038	↓	↓	6.73	0.887	–	3.55	21.17	0.48	0.629	-74.9	↓
1040	↓	↓	6.66	0.905	–	1.30	21.69	0.48	0.632	-84.1	↓
	Sampled at 1041						CT				
1050	0219	26-30	6.85	1.059	–	7.06	2 19.92	0.60	0.782	-57.1	grey
1052	↓	↓	6.71	1.112	–	2.74	21.50	0.60	0.784	-61.3	↓
1054	↓	↓	6.62	1.145	–	1.11	22.31	0.61	0.793	-65.4	↓
	Sampled at 1055										
1102	0219	31-35	6.85	0.593	–	8.65	19.10	0.65	0.846	-54.0	grey
1104	↓	↓	6.70	@D: 1.158	–	4.59	20.13	0.64	0.835	-74.9	↓
1106	↓	↓	6.61	1.206	–	1.85	21.35	0.65	0.853	-91.2	↓
	Sampled at 1107										
1114	0219	36-40	6.88	0.725	–	5.38	18.39	0.77	1.002	-57.3	grey
1116	↓	↓	6.74	1.421	–	4.88	19.64	0.82	1.066	-67.8	↓
1118	↓	↓	6.62	1.518	–	1.52	20.71	0.85	1.103	-80.9	↓
	Sampled at 1119										
1128	0219	41-45	6.85	0.765	–	5.43	18.23	0.87	1.108	-48.8	grey
1130	↓	↓	6.73	1.537	–	4.41	20.00	0.88	1.126	-55.0	↓
1132	↓	↓	6.63	1.597	–	1.52	20.41	0.89	1.145	-64.6	↓
	Sampled at 1133										
1146	0219	56-60	6.42	3.373	–	4.54	20.91	2.16	2.646	-49.6	grey
1148	↓	↓	6.44	3.787	–	1.44	20.34	2.30	2.842	-58.5	↓
1150	↓	↓	6.49	4.114	–	0.46	21.11	2.42	2.965	-67.5	↓
	Sampled at 1151										

es:

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DPT GEOCHEMICAL DATA FORM Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/27/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1317	0220	8-12	7.50	0.439	–	7.18	20.43	0.43	0.561	-80.0	dk brown
1319	↓	↓	8.00	0.780	–	4.94	21.79	0.40	0.532	-64.5	
1321	↓	↓	7.69	0.764	–	2.73	22.04	0.40	0.524	-55.6	↓
	Sampled at 1322										
1326	0220	16-20	6.82	0.483	–	5.44	20.17	0.45	0.592	-49.5	brown
1328	↓	↓	6.81	0.847	–	3.85	21.86	0.44	0.586	-55.1	↓
1330	↓	↓	6.72	0.853	–	1.68	22.39	0.44	0.584	-61.8	↓
	Sampled at 1331										
1335	0220	21-25	6.79	0.886	–	7.03	22.51	0.46	0.608	-58.7	brown
1337	↓	↓	6.75	0.911	–	3.14	23.13	0.46	0.611	-64.5	↓
1339	↓	↓	6.70	0.920	–	1.79	23.99	0.46	0.613	-71.3	↓
	Sampled at 1340										
1346	0220	26-30	7.00	0.946	–	6.27	22.46	0.49	0.643	-43.5	brown
1348	↓	↓	6.84	0.953	–	3.37	23.34	0.49	0.643	-45.6	↓
1350	↓	↓	6.67	0.964	–	1.74	23.66	0.49	0.645	-51.3	↓
	Sampled at 1351										
1358	0220	31-35	6.79	0.559	–	8.52	21.91	0.54	0.704	-44.8	grey
1400	↓	↓	6.63	1.042	–	4.56	23.31	0.54	0.704	-53.8	↓
1402	↓	↓	6.54	1.059	–	2.40	23.90	0.54	0.706	-64.6	↓
	Sampled at ~~1403~~ 1403										
1410	0220	36-40	6.80	1.188	–	5.24	23.44	0.62	0.813	-41.0	grey
1412	↓	↓	6.51	1.239	–	2.74	24.54	0.63	0.818	-49.9	↓
1414	↓	↓	6.38	1.260	–	1.29	24.97	0.63	0.825	-60.1	↓
	Sampled at 1415										
1423	0220	41-45	6.93	0.763	–	7.92	22.93	0.79	1.032	-28.1	grey
1425	↓	↓	6.67	1.596	–	6.12	24.02	0.87	1.131	-33.9	↓
1427	↓	↓	6.48	1.805	–	2.57	24.92	0.94	1.209	-46.0	↓
	Sampled at 1428							(CT)			
1438	0220	56-60	6.78	3.726	–	6.26	21.77	2.17	2.691	-23.4	grey
1440	↓	↓	6.67	4.046	–	3.04	22.92	2.37	2.910	-38.7	↓
1442	↓	↓	6.64	4.425	–	0.82	23.52	2.46	3.000	-59.7	↓
	Sampled at 1443										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CR.HE / FR1681 / 25*2

Date: 3/27/13 Crystal Towns

Time	F DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1458	0220	66-70	6.93	1.569	—	4.99	21.08	1.89	2.343	-49.1	grey
1500	↓	↓	6.88	3.415	—	3.74	22.24	1.96	2.411	-58.9	↓
1502	↓	↓	6.75	~~3.45~~ cr 3.569	—	0.81	22.48	2.01	2.499	-82.1	↓
	sampled at		1503								

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/28/13 Crystal Town

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0745	0221	8-12	7.61	0.793	—	7.60	15.74	0.52	0.658	-12.7	dk brown
0747	↓	↓	7.17	0.859	—	4.53	16.35	0.51	0.668	-5.4	↓
0749	↓	↓	6.82	0.852	—	1.82	16.63	0.50	0.646	-7.9	↓
	Sampled at 0752										
0757	0221	16-20	6.04	1.218	—	8.84	15.15	0.76	0.978	27.8	brown
0759	↓	↓	6.08	1.248	—	5.64	16.16	0.75	0.964	-35.2	↓
0801	↓	↓	6.13	1.263	—	2.14	17.41	0.75	0.968	-40.2	↓
	Sampled at 0802										
0807	0221	21-25	6.60	0.805	—	6.62	12.94	0.52	0.681	-46.1	grey
0809	↓	↓	6.58	0.823	—	4.37	14.19	0.52	0.679	-49.7	↓
0811	↓	↓	6.54	0.845	—	1.45	14.75	0.52	0.684	-53.2	↓
	Sampled at 0812										
0825	0221	26-30	6.61	0.890	—	9.15	12.41	0.59	0.766	-38.4	grey
0827	↓	↓	6.49	0.946	—	5.41	15.98	0.58	0.744	-41.7	↓
0829	↓	↓			—						↓
	Sampled at 0830		6.65	0.549		7.30	13.75	0.34	0.455	-49.9	grey
0836	0221	31-35	6.63	~~0.5~~ 0.809	—	7.06	15.01	0.65	0.847	-62.1	↓
0838	↓	↓	6.53	1.105	—	9.17	17.67	0.65	0.844	-64.2	↓
0840	↓	↓			—						
	Sampled at 0841										~~grey~~ (CT)
0852	0221	36-40	6.69	0.548	—	7.36	12.81	0.36	0.476	-44.2	grey
0854	↓	↓	~~6.42~~ 6.675	1.015	—	7.08	13.80	0.74	0.956	-70.8	↓
0856	↓	↓	6.40	1.174	—	7.05	13.84	0.76	0.980	-73.9	↓
	Sampled at 0857										
0913	0221	41-45	6.35	2.205	—	1.56	17.77	1.33	1.676	-63.2	grey
0915	↓	↓	6.38	2.230	—	0.23	18.21	1.34	1.683	-72.9	↓
0917	↓	↓	6.40	2.263	—	0.14	18.45	1.35	1.688	-75.6	↓
	Sampled at 0918										
0931	0221	56-60	6.70	4.141	—	2.40	18.11	2.69	3.257	-46.5	grey
0933	↓	↓	6.61	4.488	—	2.91	18.88	2.81	3.391	-51.5	↓
0935	↓	↓	6.57	4.736	—	1.47	19.68	3.80	3.524	-60.5	↓
	Sampled at 0936										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

ate: 3/28/13 Crystal Towns

Time	G DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1004	0222	8-12	7.72	1.260	–	7.88	19.76	0.69	0.888	-60.6	dk brown
1006	↓	↓	7.80	1.214	–	4.61	20.46	0.66	0.846	-42.4	↓
1008	↓	↓	7.48	1.177	–	1.86	20.56	0.64	0.827	-39.3	↓
	Sampled at 1009										
1014	0222	16-20	6.96	0.979	–	5.74	21.16	0.62	0.837	-38.8	brown
1016	↓	↓	6.92	1.266	–	2.02	22.53	0.68	0.887	-46.7	↓
1018	↓	↓	6.85	1.320	–	0.44	23.16	0.69	0.895	-53.9	↓
	Sampled at 1019										
1027	0222	21-25	7.09	0.992	–	6.93	21.58	0.60	0.804	-44.2	grey
1029	↓	↓	7.00	1.197	–	3.78	22.12	0.64	0.832	-47.9	↓
1031	↓	↓	6.93	1.213	–	1.38	22.21	0.64	0.835	-57.6	↓
	Sampled at 1032										
1040	0222	26-30	7.10	1.212	–	6.01	21.20	0.64	0.838	-39.5	grey
1042	↓	↓	6.96	1.223	–	4.23	22.94	0.64	0.829	-39.2	↓
1044	↓	↓	6.80	1.245	–	1.23	24.14	0.63	0.826	-41.2	↓
	Sampled at 1045										
1052	0222	31-35	6.23	1.483	–	0.48	24.57	0.77	0.997	-63.6	grey
1054	↓	↓	6.25	1.530	–	0.13	24.78	0.77	1.002	-67.6	↓
1056	↓	↓	6.25	1.542	–	0.09	24.98	0.78	1.005	-71.4	↓
	Sampled at 1057								0.955		
1105	0222	36-40	7.06	1.440	–	5.13	23.97	0.74	~~0.955~~	-45.5	grey
1107	↓	↓	6.87	1.461	–	0.38	24.80	0.74	1.478	-54.2	↓
1109	↓	↓	6.72	1.496	–	0.08	25.25	0.75	0.973	-65.3	↓
	Sampled at 1110										
1120	0222	41-45	6.94	1.419	–	6.53	23.27	0.77	1.002	-44.6	grey
1122	↓	↓	6.74	1.602	–	0.57	24.44	0.84	1.094	-50.3	↓
1124	↓	↓	6.64	1.695	–	0.11	24.74	0.87	1.119	-55.8	↓
	Sampled at 1125										
1136	0222	56-60	6.85	1.623	–	7.37	22.24	1.98	2.466	-22.6	grey
1138	↓	↓	6.52	3.870	–	4.01	23.46	2.23	2.753	-32.5	↓
1140	↓	↓	6.51	4.240	–	0.57	23.99	2.34	2.888	-41.7	↓
	Sampled at 1141										

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TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

1200
1240

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

.te: 3/28/13 BJ

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1253	0223	8-12	8.08	0.677	–	7.32	20.39	0.70	0.907	-48.4	brown
1255	↓	↓	7.84	1.313	–	1.04	21.90	0.70	0.909	-22.6	↓
1257	↓	↓	7.98	1.305	–	0.45	22.02	0.69	0.887	-20.0	↓
	Sampled at 1259										
1302	0223	16-20	6.88	1.230	–	7.11	16.12	0.65	0.839	-35.6	black
1304	↓	↓	6.78	1.260	–	0.25	23.52	0.64	0.858	-41.1	↓
1306	↓	↓	6.74	1.266	–	0.12	23.69	0.65	0.846	-48.4	↓
	Sampled at 1309										
1314	0223	21-25	7.09	1.115	–	6.55	15.42	0.58	0.771	-55.1	black
1316	↓	↓	6.96	1.136	–	0.45	23.21	0.59	0.774	-53.9	↓
1318	↓	↓	6.86	1.177	–	0.13	23.38	0.61	0.795	-58.4	↓
	Sampled at 1320	~~1320~~									
1324	0223	26-30	7.02	1.058	–	5.20	19.56	0.55	0.726	-49.5	brown
1326	↓	↓	6.97	1.095	–	1.23	24.04	0.55	0.722	-53.1	↓
1328	↓	↓	6.90	1.116	–	0.12	24.78	0.56	0.731	-60.0	↓
	Sampled at 1330										
1334	0223	31-35	7.24	1.061	–	6.45	20.03	0.56	0.728	-48.8	brown
1336	↓	↓	7.10	1.097	–	1.72	24.46	0.55	0.726	-56.9	↓
1338	↓	↓	6.98	1.113	–	0.17	24.65	0.56	0.730	-68.8	↓
	Sampled at 1340										
1344	0223	~~36~~ 36-40	7.11	1.107	–	~~5.41~~ ~~16.55~~	16.53	0.60	0.804	-52.7	brown
1346	↓	↓	7.06	1.311	–	0.30	24.03	0.71	0.935	-64.2	↓
1348	↓	↓	7.02	1.461	–	0.09	24.43	0.77	1.004	-78.1	↓
	Sampled at 1350										
1407	0223	41-45	6.96	1.647	–	3.79	23.69	0.93	1.209	-34.0	brown
1409	↓	↓	6.99	1.985	–	0.41	~~23.76~~ 23.76	1.08	1.383	-50.8	↓
1411	↓	↓	6.73	2.134	–	0.10	23.98	1.14	1.455	-63.6	↓
	Sampled at 1413										
1420	0223	56-60	6.88	2.986	–	6.60	22.98	3.03	3.870	-35.7	tannish
1424	↓	↓	6.71	6.342	–	1.02	23.91	3.64	4.373	-44.0	↓
1426	↓	↓	6.74	6.767	–	0.15	24.05	3.82	4.545	-58.9	↓
	Sampled at 1428										

1440

es:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

USDSTCP

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Site: 3/28/13 - 3/29/13 BI

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1457	0224	8-12	8.26	1.292	–	6.48	22.19	0.66	0.857	-31.6	black
1459	↓	↓	7.87	1.238	–	2.11	22.73	0.64	0.832	-25.2	↓
1501	↓	↓	7.44	1.221	–	0.41	22.87	0.63	0.826	-25.0	↓
	Sampled at 1504										
1506	0224	16-20	7.10	1.154	–	5.19	23.90	0.59	0.769	-33.1	grey
1508	↓	↓	7.02	1.171	–	1.93	24.64	0.59	0.768	-39.3	↓
1510	↓	↓	6.94	1.177	–	0.39	24.76	0.59	0.768	-47.2	↓
	Sampled at 1512										
1516	0224	21-25	7.19	0.690	–	7.10	23.32	0.66	0.863	-37.7	brown
1518	↓	↓	7.07	1.315	–	3.27	24.72	0.67	0.871	-43.2	↓
1520	↓	↓	6.94	1.346	–	0.68	25.07	0.69	0.879	-49.3	↓
	Sampled at 1522										
1526	0224	26-30	6.96	1.630	–	1.63	23.89	0.83	1.072	-40.4	tan
1528	↓	↓	6.69	1.637	–	0.29	24.76	0.83	1.063	-43.3	↓
1530	↓	↓	6.56	1.621	–	0.14	24.94	0.81	1.047	-44.5	↓
	Sampled at 1532										
820	0224	31-35	6.89	1.037	–	1.05	20.49	0.57	0.755	81.3	tan
822	↓	↓	6.37	1.090	–	0.25	20.51	0.60	0.782	51.2	↓
824	↓	↓	6.26	1.109	–	0.20	20.49	0.61	0.795	35.5	↓
	Sampled at 826										
832	0224	36-40	7.02	1.378	–	2.55	17.30	0.81	1.045	1.7	brown
834	↓	↓	7.00	1.436	–	0.37	19.01	0.84	1.079	-3.9	↓
836	↓	↓	6.96	1.494	–	0.17	19.14	0.87	1.122	-9.7	↓
	Sampled at 840										
847	0224	41-45	7.22	1.646	–	0.24	21.06	0.92	1.176	-11.5	brown
849	↓	↓	7.16	1.700	–	0.12	21.36	0.94	1.221	-16.4	↓
851	↓	↓	7.12	1.730	–	0.10	21.34	0.95	1.217	-19.9	↓
	Sampled at 855										
905	0224	56-60	7.19	3.290	–	2.31	20.94	2.07	2.595	-9.5	black
907	↓	↓	7.18	3.829	–	0.22	21.57	2.24	2.760	-16.6	↓
909	↓	↓	7.20	4.040	–	0.11	21.73	2.34	2.890	-26.0	↓
	Sampled at 911										

3/28/13

3/29/13

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3/29 810 start –

920 start

DPT GEOCHEMICAL DATA FORM

Project/Project Number: ~~CHRE~~ CRHE / FR1681 / 25*2

Date: 3/29/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
944	0225	8-12	7.17	1.093	–	0.42	23.61	0.55	0.725	-32.2	tan
946	↓	↓	7.08	1.073	–	0.35	23.68	0.54	0.713	-39.7	↓
948	↓	↓	7.06	1.065	–	0.37	23.70	0.54	0.708	-42.3	↓
	Sampled at 950										
1000	0225	16-20	7.34	1.103	–	7.32	22.89	0.57	0.749	-22.6	brown
1002	↓	↓	7.21	1.146	–	1.46	24.74	0.57	0.755	-23.6	↓
1004	↓	↓	7.08	1.170	–	0.17	25.60	0.57	0.756	-27.9	↓
	Sampled at 1006										
1014	0225	21-25	7.28	1.109	–	1.10	25.99	0.55	0.720	-25.0	clearish
1016	↓	↓	7.18	1.121	–	0.20	25.30	0.55	0.728	-29.5	↓
1018	↓	↓	7.10	1.129	–	0.10	25.27	0.56	0.735	-34.5	↓
	Sampled at 1020										
1024	0225	26-30	7.34	1.140	–	1.49	24.20	0.58	0.765	-18.3	~~brown~~ cloudy
1026	↓	↓	7.22	1.164	–	0.15	24.44	0.58	0.767	-27.0	↓
1028	↓	↓	7.13	1.169	–	0.09	24.48	0.59	0.769	-33.8	↓
	Sampled at 1030										
1034	0225	31-35	7.44	1.201	–	7.22	23.43	0.63	0.821	-25.0	cloudy
1036	↓	↓	7.28	1.268	–	0.92	25.74	0.63	0.818	-29.0	↓
1038	↓	↓	7.20	1.299	–	0.15	26.45	0.63	0.826	-34.2	↓
	Sampled at 1040										
1044	0225	36-40	7.37	1.778	–	0.69	25.86	0.90	1.166	-21.1	cloudy
1046	↓	↓	7.25	1.815	–	0.10	25.05	0.92	1.180	-33.9	↓
1048	↓	↓	7.19	1.817	–	0.07	24.57	0.95	1.221	-44.8	↓
	Sampled at 1050										
1054	0225	41-45	7.39	2.221	–	4.83	25.25	1.15	1.466	-18.3	brown
1056	↓	↓	7.32	2.321	–	0.34	26.00	1.19	1.520	-33.1	↓
1058	↓	↓	7.25	2.446	–	0.07	26.47	1.23	1.567	-52.9	↓
	Sampled at 1100										
1104	0225	56-60	7.51	2.073	–	6.62	24.31	~~3.07~~ 2.01	~~2.67~~	1.5	black
1106	↓	↓	7.41	2.566	–	0.29	24.32	2.29	2.935	-67.5	↓
1108	↓	↓	7.38	4.593	–	0.05	24.93	2.48	3.030	-88.0	↓
	Sampled at 1110										

D, G, B, B1

225

Notes:

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1355 start
1416 finish

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 3/29/13

J

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1352	0225	66-0	7.74	5.020	—	0.30	29.47	2.57	3.131	-11.6	brown
1354	↓	↓	7.65	5.046	—	0.11	27.3	2.58	3.140	-33.7	↓
1356	↓	↓	7.58	5.044	—	0.07	27.34	2.58	3.142	-47.7	↓
sample @		1358									

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM (CA) Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/01/13 DPT 0226 (AM: on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
8:54	0226	8-12	7.21	1.020	–	2.03	22.13	5.1	0.669	-397.6	cloudy white
8:56	↓	↓	7.21	1.029	–	0.71	22.08	5.1	0.663	-403.7	"
8:58	↓	↓	7.21	1.015	–	0.70	22.16	5.4	0.658	-418.9	"
	Sampled at 8:59		~~7.19~~	~~1.490~~		~~0.68~~	~~23.96~~	~~7.4~~	~~0.966~~	-431.0	brown cloudy (CS)
9:07	0226	16-20	7.19	1.470	–	0.68 (CS)	23.76	7.4	0.966	-431.0	
9:09	↓	↓	7.19	1.487	–	0.30	24.32	7.5	0.968	-458.1	"
9:11	↓	↓	7.19	1.475	–	0.29	24.13	7.4	0.963	-472.9	"
	Sampled at 9:12		~~7.25~~ (CS)	~~1.754~~ (CS)							
9:21	0226	21-25	7.23	1.754	–	0.28	23.24	8.9	1.150	-574.8	brown cloudy
9:23	↓	↓	7.23	1.777	–	0.32	23.54	9.0	1.159	-577.0	"
9:25	↓	↓	7.23	1.788	–	0.26	23.60	9.1	1.64	-579.4	"
	Sampled at 9:27										
9:33	0226	26-30	7.26	1.602	–	0.22	23.67	7.8	1.003	-595.4	cloudy gray
9:35	↓	↓	7.26	1.507	–	0.21	23.95	7.5	0.973	-596.2	"
9:37	↓	↓	7.26	1.491	–	0.21	24.05	7.4	0.965	-596.5	"
	Sampled at 9:38										
9:47	0226	31-35	7.23	1.027	–	0.73	23.81	5.3	0.689	-590.7	v. cloudy brown
9:49	↓	↓	7.23	1.001	–	0.45	23.92	4.9	0.651	-592.6	"
9:51	↓	↓	7.24	0.988	–	0.39	24.09	4.9	0.645	-594.2	"
	Sampled at 9:52										
10:04	0226	36-40	7.27	0.936	–	0.21	24.72	4.6	0.610	-606.1	brown cloudy
10:06	↓	↓	7.27	0.908	–	0.19	24.58	4.6	0.611	-606.6	"
10:08	↓	↓	7.28	0.874	–	0.20	24.59	4.3	0.575	-607.4	"
	Sampled at 10:09										
10:25	0226	41-45	7.29	0.776	–	0.19	24.46	3.8	0.503	-610.2	brown cloudy
10:27	↓	↓	7.29	0.764	–	0.17	24.45	3.7	0.499	-610.4	"
10:29	↓	↓	7.29	0.761	–	0.16	24.44	3.7	0.496	-610.6	lt. brown cloudy
	Sampled at 10:30										
10:44	0226	56-60	7.30	0.711	–	0.15	24.73	3.5	0.463	-609.9	lt. brown cloudy
10:46	↓	↓	7.30	0.711	–	0.15	24.98	3.5	0.462	-609.9	"
10:48	↓	↓	7.30	0.712	–	0.14	25.01	3.5	0.463	-609.9	"
	Sampled at		10:49								

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/01/13 DPT0227 (AO on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
11:18	0227	8-12	6.85	0.889	–	0.63	26.54	4.5	0.595	-159.9	milky brown
11:20	↓	↓	6.78	0.862	–	0.65	26.01	4.3	0.564	-151.7	"
11:22	↓	↓	6.76	0.850	–	0.69	25.83	4.2	0.555	-147.7	"
	Sampled at 11:23										
11:28 (A)	0227	16-20	6.88	0.892	–	0.81	26.60	5.2	0.730	-174.6	milky brown
11:30	↓	↓	7.07	(B) 1.396	–	0.19	27.48	6.8	0.895	-227.8	"
11:32	↓	↓	7.09	1.413	–	0.18	27.62	7.0	0.917	-243.9	"
	Sampled at 11:33										
11:44	0227	21-25	7.18	1.565	–	0.13	29.32	7.8	1.020	-416.2	cloudy brown
11:46	↓	↓	7.21	1.575	–	0.11	29.45	7.8	1.019	-457.3	"
11:48	↓	↓	7.21	1.616	–	0.11	29.27	8.0	1.041	-469.1	"
	Sampled at 11:49										
12:02	0227	26-30	7.22	1.431	–	0.58	28.48	6.6	0.859	-591.5	milky brown
12:04	↓	↓	7.20	1.324	–	0.12	29.42	6.6	0.864	-590.4	"
12:06	↓	↓	7.17	1.332	–	0.12	29.26	6.6	0.866	-589.4	"
	Sampled at 12:07										
12:40	0227	31-35	7.24	1.184	–	0.31	29.64	5.9	0.772	-609.6	milky brown
12:42	↓	↓	7.24	1.184	–	0.22	29.60	5.8	0.770	-610.5	"
12:44	↓	↓	7.23	1.183	–	0.19	29.56	5.8	0.769	-611.4	"
	Sampled at 12:45										
(D) 12:57	0227	36-40	7.22	1.332	–	0.11	29.63	6.3	0.836	-622.7	cloudy brown
(C) 12:59	↓	↓	7.22	1.350	–	0.11	29.72	6.7	0.876	-623.0	"
13:01	↓	↓	7.23	1.345	–	0.12	29.78	6.7	0.878	-623.1	"
	Sampled at										
13:16	0227	41-45	6.94	1.817	–	0.30	29.43	8.9	(E) 1.159	-366.6	milky brown
13:18	↓	↓	6.92	1.813	–	0.24	28.76	9.1	1.180	-346.6	"
13:20	↓	↓	6.91	1.810	–	0.24	28.80	9.1	1.176	-349.4	"
	Sampled at 13:21										
13:35	0227	56-60	7.23	2.518	–	0.08	29.20	12.5	1.639	-480.0	milky brown
13:37	↓	↓	7.27	2.583	–	0.10	29.46	13.2	1.674	-498.5	"
13:39	↓	↓	7.30	2.609	–	0.10	29.40	13.3	1.694	-504.8	"
	Sampled at 13:40										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/01/13 DPT 0228 (AN on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
14:16	0228	8-12	7.28	2.144	–	0.19	27.92	~~1.43~~ 1.4	1.428	-531.5	milky brown
14:18	↓	↓	7.28	2.045	–	0.18	27.75	1.07	1.362	-542.1	"
14:20	↓	↓	7.28	1.932	–	0.19	27.50	1.02	1.277	-549.2	"
	Sampled at 14:21		~~7.00~~								
14:29	0228	16-20	7.29	1.713	–	0.14	26.28	8.4	1.109	-585.4	milky brown
14:31	↓	↓	7.29	1.726	–	0.12	26.47	8.7	1.118	-587.8	"
14:33	↓	↓	7.30	1.750	–	0.12	26.57	8.7	1.132	-589.5	"
	Sampled at 14:34										
14:40	0228	21-25	7.32	1.704	–	0.92	27.13	8.5	1.090	-601.2	cloudy gray
14:42	↓	↓	7.30	1.670	–	0.80	27.19	8.4	1.086	-602.2	"
14:44	↓	↓	7.30	1.666	–	0.76	27.30	8.4	1.083	-602.9	"
	Sampled at 14:45										
14:54	0228	26-30	7.29	1.511	–	0.08	27.25	7.5	0.974	-607.1	milky gray
14:56	↓	↓	7.29	1.492	–	0.11	27.40	7.5	0.971	-607.2	"
14:58	↓	↓	7.29	1.487	–	0.10	27.49	7.4	0.968	-607.4	"
	Sampled at 14:59										
15:07	0228	31-35	7.29	1.380	–	0.10	28.01	6.8	0.892	-613.2	milky gray
15:09	↓	↓	7.29	1.298	–	0.10	28.29	6.5	0.848	-613.8	"
15:11	↓	↓	7.29	1.285	–	0.09	28.23	6.4	0.838	-614.0	"
	Sampled at 15:12										
15:24	0228	36-40	7.29	1.151	–	0.09	27.72	5.7	0.752	-617.3	milky gray
15:26	↓	↓	7.29	1.145	–	0.08	27.90	5.7	0.745	-617.5	"
15:28	↓	↓	7.29	1.142	–	0.08	27.87	5.6	0.743	-617.5	"
	Sampled at 15:29										
15:42	0228	41-45	7.29	1.040	–	0.08	27.44	5.1	0.674	-619.0	cloudy gray
15:44	↓	↓	7.29	1.034	–	0.09	27.68	5.1	0.670	-619.1	"
15:46	↓	↓	7.29	1.028	–	0.08	28.16	5.0	0.663	-619.2	"
	Sampled at 15:47										
16:01	0228	56-60	7.28	1.008	–	0.20	29.37	4.9	0.655	-620.1	cloudy gray
16:03	↓	↓	7.28	1.009	–	0.08	29.36	4.9	0.656	-620.1	"
16:05	↓	↓	7.29	1.009	–	0.08	29.32	4.9	0.656	-620.1	"
	Sampled at 16:06										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM (AH or map) Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/01/13-04/02/13 DPT 0229 (23) * 16-20' down done 04/02/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
16:46	0229	8-12	7.23	0.760	–	1.20	28.43	3.7	0.496	-175.6	cloudy gray
16:48	↓	↓	7.22	0.758	–	1.21	28.44	3.7	0.493	-178.6	"
16:50	↓	↓	7.21	0.755	–	1.41	28.42	3.7	0.491	-181.7	"
04/01/13	Sampled at 16:51										
07:34	0229	16-20	6.87	1.919	–	0.48	21.26	9.8	1.248	-167.0	milky gray
07:36	↓	↓	7.05	1.928	–	0.47	21.02	9.8	1.252	-188.7	"
07:38	↓	↓	7.10	1.935	–	0.45	20.89	9.9	1.256	-214.8	"
04/02/13	Sampled at 07:39			~~1.93~~ (cs)			~~19.92~~				
07:48	0229	21-25	7.21	1.832	–	0.31	19.92	9.3	1.191	-498.4	milky gray
07:50	↓	↓	7.24	1.824	–	0.30	20.06	9.3	1.188	-502.1	"
07:52	↓	↓	7.26	1.808	–	0.31	20.12	9.3	1.179	-503.9	"
	Sampled at 07:53										
08:20	0229	26-30	7.44	1.107	–	0.21	19~~.93~~ (cs)	5.5	0.722	-574.7	milky gray
08:22	↓	↓	7.44	1.103	–	0.21	20.09	5.5	0.718	-575.5	"
08:24	↓	↓	7.45	1.100	–	0.21	20.14	5.5	0.715	-576.2	"
	Sampled at 08:25						~~19~~ (cs)				
08:38	0229	31-35	7.46	0.980	–	0.17	20.37	4.9	0.639	-585.3	cloudy gray
08:40	↓	↓	7.46	0.979	–	0.18	20.45	4.8	0.639	-585.5	"
08:42	↓	↓	7.46	0.975	–	0.18	20.50	4.8	0.634	-585.9	"
	Sampled at 08:43										
0900	0229	36-40	7.48	0.874	–	0.19	20.47	4.3	0.568	-586.3	cloudy gray
09:02	↓	↓	7.48	0.871	–	0.18	20.46	4.3	0.566	-586.1	"
09:04	↓	↓	7.48	0.870	–	0.18	20.48	4.3	0.566	-586.0	"
	Sampled at 09:05										
09:16	0229	41-45	7.50	0.832	–	0.15	20.76	4.1	0.541	-591.8	milky gray
09:18	↓	↓	7.50	0.830	–	0.13	20.82	4.1	0.540	-592.1	"
09:20	↓	↓	7.50	0.829	–	0.15	20.85	4.1	0.539	-592.3	"
	Sampled at 09:21										
09:40	0229	56-60	7.52	0.790	–	0.14	21.08	3.9	0.515	-596.3	milky gray
09:42	↓	↓	7.52	0.790	–	0.13	21.10	3.9	0.514	-596.9	"
09:44	↓	↓	7.53	0.790	–	0.13	21.12	3.9	0.513	-597.0	"
	Sampled at 09:45										

Notes:

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/02/13 DPT 0230 (AG on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
10:20	0230	8-12	7.53	0.919	–	0.19	24.08	4.5	0.597	-585.5	milky gray
10:22	↓	↓	7.53	0.916	–	0.19	24.00	4.5	0.596	-585.9	"
10:24	↓	↓	7.53	0.915	–	0.17	23.98	4.5	0.595	-586.5	"
	Sampled at 10:25										
10:31	0230	16-20	7.54	0.887	–	0.16	23.63	4.4	0.576	-594.2	milky gray
10:33	↓	↓	7.54	0.884	–	0.16	23.67	4.3	0.575	-594.5	"
10:35	↓	↓	7.54	0.883	–	0.15	23.70	4.3	0.574	-594.7	"
	Sampled at 10:36										
10:45	0230	21-25	7.55	0.849	–	0.14	24.01	4.2	0.552	-582.6	cloudy gray
10:47	↓	↓	7.55	0.849	–	0.13	24.08	4.2	0.552	-586.4	"
10:49	↓	↓	7.55	0.848	–	0.13	24.18	4.2	0.552	-589.1	"
	Sampled at 10:50										
11:00	0230	26-30	7.56	0.819	–	0.13	23.45	4.0	0.533	-598.2	milky gray
11:02	↓	↓	7.56	0.817	–	0.14	23.53	4.0	0.532	-598.5	"
11:04	↓	↓	7.56	0.817	–	0.11	23.76	4.0	0.531	-598.7	"
	Sampled at 11:05										
11:14	0230	31-35	7.56	0.796	–	0.12	23.51	4.0	0.518	-600.5	cloudy gray
11:16	↓	↓	7.56	0.796	–	0.11	23.52	3.9	0.517	-600.4	"
11:18	↓	↓	7.56	0.794	–	0.11	23.50	3.9	0.516	-600.7	"
	Sampled at 11:19										
11:27	0230	36-40	7.56	0.767	–	0.12	24.02	3.8	0.500	-602.0	milky gray
11:29	↓	↓	7.56	0.765	–	0.10	24.19	3.7	0.498	-602.1	"
11:31	↓	↓	7.56	0.763	–	0.10	24.27	3.7	0.497	-602.2	"
	Sampled at 11:32							(3)			
13:23	0230	41-45	7.13	1.964	–	0.46	25.87	9.9	1.277	-349.2	cloudy gray
13:25	↓	↓	7.05	1.950	–	0.26	26.07	9.9	1.267	-331.2	"
13:27	↓	↓	7.04	1.948	–	0.22	26.12	9.9	1.267	-315.5	"
	Sampled at 13:28										
13:45	0230	56-60	7.53	3.634	–	0.17	28.82	19.0	2.361	-397.1	milky gray
13:47	↓	↓	7.54	3.635	–	0.14	28.81	19.0	2.363	-421.3	"
13:49	↓	↓	7.54	3.630	–	0.13	28.79	19.0	2.362	-445.1	"
	Sampled at 13:50										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/02/13 DPT0231 (AI or map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
16:02	0231	8-12	7.50	0.807	–	2.65	28.46	3.9	0.525	-181.9	milky gray
16:04	↓	↓	7.46	0.807	–	2.95	28.28	3.9	0.525	-189.3	slightly cloudy gray
16:06	↓	↓	7.44	0.801	–	3.23	27.99	3.9	0.520	-196.4	clear
	Sampled at 16:07										
16:17	0231	16-20	7.33	1.844	–	0.31	27.64	8.9	1.177	-171.1	milky gray
16:19	↓	↓	7.25	1.927	–	0.24	27.87	9.7	1.247	-190.4	"
16:21	↓	↓	7.26	1.953	–	0.25	27.71	9.8	1.267	-213.3	"
	Sampled at 16:22										
16:34	0231	21-25	7.32	1.344	–	0.15	27.27	6.7	0.876	-386.0	milky gray
16:36	↓	↓	7.33	1.341	–	0.15	27.71	6.7	0.872	-397.4	"
16:38	↓	↓	7.33	1.338	–	0.14	27.77	6.7	0.871	-402.8	"
	Sampled at 16:39										
16:46	0231	26-30	7.35	1.247	–	0.12	27.32	6.4	0.837	-407.2	milky gray
16:48	↓	↓	7.35	1.231	–	0.11	27.43	6.1	0.803	-421.9	"
16:50	↓	↓	7.35	1.225	–	0.11	27.43	6.1	0.797	-429.3	"
	Sampled at 16:51										
17:00	0231	31-35	7.37	1.125	–	0.18	26.71	5.6	0.732	-436.8	milky gray
17:02	↓	↓	7.37	1.128	–	0.12	27.03	5.5	0.737	-446.7	"
17:04	↓	↓	7.37	1.122	–	0.11	26.99	5.5	0.737	-449.9	"
	Sampled at 17:05										
17:14	0231	36-40	7.38	1.009	–	0.11	25.24	5.3	0.696	-451.8	milky gray
17:16	↓	↓	7.38	0.964	–	0.10	26.13	4.8	0.635	-459.1	"
17:18	↓	↓	7.38	0.950	–	0.10	26.39	4.7	0.620	-459.7	"
	Sampled at 17:19										
17:29	0231	41-45	7.34	0.834	–	0.09	25.79	4.1	0.543	-485.0	milky gray
17:31	↓	↓	7.34	0.826	–	0.11	25.97	4.0	0.536	-487.9	"
17:33	↓	↓	7.34	0.824	–	0.11	25.98	4.0	0.536	-489.3	"
	Sampled at 17:34										
17:49	0231	56-60	7.32	6.759	–	0.11	23.89	3.7	0.488	-501.7	milky gray
17:51	↓	↓	7.32	0.749	–	0.09	24.60	3.7	0.489	-502.7	"
17:53	↓	↓	7.33	0.744	–	0.09	24.93	3.6	0.484	-504.2	"
	Sampled at 17:54										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/03/13 DPT 0232 (B) on map

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
08:49	0232	8-12	7.13	0.962	–	0.81	22.04	4.8	0.627	-256.8	milky gray
08:51	↓	↓	7.13	0.958	–	0.71	22.00	4.7	0.624	-317.1	"
08:53	↓	↓	7.13	0.958	–	0.65	21.97	4.7	0.621	-352.6	"
	Sampled at 08:54		~~7.18~~	~~0.685~~		0.30	~~21.40~~	~~3.5~~	0.709	-501.7	milky gray (CS)
09:04	0232	16-20	7.18	0.685	–	0.30	21.40	3.5	0.709	-501.7	milky gray
09:06	↓	↓	7.19	0.678	–	0.28	21.59	3.3	0.442	509.5	"
09:08	↓	↓	7.20	0.669	–	0.28	21.66	3.3	0.439	-511.6	"
	Sampled at 09:09										
09:19	0232	21-25	7.24	0.612	–	0.70	22.02	2.9	0.388	-538.4	milky gray
09:21	↓	↓	7.24	0.582	–	0.23	22.03	2.8	0.378	-540.1	"
09:23	↓	↓	7.24	0.580	–	0.22	22.07	2.8	0.376	-541.1	"
	Sampled at 09:24						~~22.~~ (CS)				
09:31	0232	26-30	7.27	0.538	–	0.20	22.39	2.6	0.350	-555.2	milky gray
09:33	↓	↓	7.27	0.538	–	0.19	22.42	2.6	0.350	-555.6	"
09:35	↓	↓	7.27	0.537	–	0.19	22.43	2.6	0.349	-555.9	"
	Sampled at 09:36										
09:45	0232	31-35	7.30	(CS) 1.763	–	0.34	24.05	~~9.1~~ 8.9 (CS)	1.121	-339.5	milky gray
09:47 (D)	↓	↓	7.31	1.798	–	0.31	23.92	~~9.1~~ 8.9 (CS)	1.158	-390.1	"
09:49	↓	↓	7.32	1.801	–	0.27	23.93	9.1	1.170	-401.3	"
~~09:49~~	Sampled at 09:50										
10:02	0232	36-40	7.31	1.479	–	0.34	23.69	7.7	1.005	-538.7	milky gray
10:04	↓	↓	7.32	1.375	–	0.18	23.88	7.4	0.933	-543.4	"
10:06	↓	↓	7.33	1.320	–	0.17	23.99	7.1	0.863	-546.4	"
	Sampled at 10:07										
10:20	0232	41-45	7.40	1.030	–	0.19	23.92	~~7.8~~ (CS)	~~0.964~~	-580.9	milky gray
10:22	↓	↓	7.40	0.914	–	0.14	24.11	4.6	0.610	-582.0	"
10:24	↓	↓	7.40	0.884	–	0.12	24.48	4.4	0.578	-582.9	"
	Sampled at 10:25						~~2~~ (CS)				
10:39	0232	56-60	7.43	0.612	–	0.11	24.70	3.1	0.410	-589.0	milky gray
10:41	↓	↓	7.43	0.587	–	0.11	24.96	2.9	0.386	-589.3	"
10:43	↓	↓	7.44	0.576	–	0.11	25.01	2.8	0.377	-589.5	"
	Sampled at 10:44										

Notes:

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/03/2013 DPT0233 (BF on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
11:38	0233	8-12	7.57	0.895	–	0.46	24.88	4.4	0.581	-533.6	cloudy brown
11:40	↓	↓	7.57	0.896	–	0.44	24.88	4.4	0.581	-536.4	"
11:42	↓	↓	7.58	0.899	–	0.44	24.88	4.4	0.584	-539.3	"
	Sampled at 11:43										
11:50	0233	16-20	7.53	0.810	–	0.40	26.83	4.1	0.539	-557.0	milky gray
11:52	↓	↓	7.53	0.794	–	0.24	26.55	3.9	0.518	-558.3	"
11:54	↓	↓	7.54	0.769	–	0.20	26.33	3.8	0.502	-561.9	"
	Sampled at 11:55										
12:02	0233	21-25	7.51	0.490	–	0.14	27.48	2.4	0.320	-581.4	cloudy brown
12:04	↓	↓	7.51	0.487	–	0.14	27.46	2.3	0.317	-582.2	"
12:06	↓	↓	7.51	0.485	–	0.14	27.46	2.3	0.316	-582.5	"
	Sampled at 12:07										
12:44	0233	26-30	7.49	0.369	–	0.12	33.66	1.7	0.241	-591.5	cloudy brown
12:46	↓	↓	7.49	0.368	–	0.08	33.49	1.7	0.239	-592.3	"
12:48	↓	↓	7.49	0.367	–	0.08	33.37	1.7	0.239	-592.7	"
	Sampled at 12:49										
12:56	0233	31-35	7.24	1.845	–	0.15	30.82	9.4	1.215	-476.4	milky brown
12:58	↓	↓	7.24	1.843	–	0.09	31.29	9.3	1.198	-497.8	"
13:00	↓	↓	7.22	1.863	–	0.09	31.56	9.2	1.201	-499.8	"
	Sampled at 13:01										
13:14	0233	36-40	7.27	1.886	–	0.41	33.52	9.6	1.251	-315.6	milky gray
13:16	↓	↓	7.23	2.132	–	0.10	30.89	10.6	1.374	-497.7	"
13:18	↓	↓	7.21	2.151	–	0.09	30.38	10.8	1.395	-500.4	"
	Sampled at 13:19										
13:30	0233	41-45	7.23	1.708	–	0.07	31.74	8.4	1.095	-580.4	cloudy gray
13:32	↓	↓	7.24	1.621	–	0.06	30.94	8.2	1.056	-577.7	"
13:34	↓	↓	7.24	1.596	–	0.06	30.78	8.0	1.038	-576.0	"
	Sampled at 13:35										
13:48	0233	56-60	7.30	1.609	–	0.08	30.97	8.0	1.039	-600.4	cloudy brown
13:50	↓	↓	7.29	1.592	–	0.07	30.75	8.0	1.037	-600.7	"
13:52	↓	↓	7.29	1.586	–	0.07	30.61	7.9	1.032	-601.0	"
	Sampled at 13:53										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/03/13 DPT 0234 (BE on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
14:30	0234	8-12	7.21	1.278	–	0.27	27.16	6.3	0.831	-437.9	cloudy brown
14:32	↓	↓	7.21	1.276	–	0.25	26.84	6.3	0.830	-469.9	"
14:34	↓	↓	7.22	1.278	–	0.23	26.44	6.3	0.830	-479.9	"
	Sampled at 14:35										
14:42	0234	16-20	7.32	1.088	–	0.12	27.60	5.4	0.733	-557.7	milky gray
14:44	↓	↓	7.33	1.043	–	0.12	27.51	5.2	0.686	-560.2	"
14:46	↓	↓	7.34	1.008	–	0.11	27.38	5.0	0.659	-561.8	"
	Sampled at 14:47										
14:54	0234	21-25	7.39	0.932	–	0.10	27.07	4.7	0.623	-577.0	milky gray
14:56	↓	↓	7.39	0.796	–	0.10	27.97	3.9	0.523	-579.5	"
14:58	↓	↓	7.39	0.781	–	0.10	28.68	3.8	0.510	-580.5	"
	Sampled at 14:59										
15:06	0234	26-30	7.43	0.610	–	0.07	30.32	2.9	0.398	-591.6	gray milky
15:08	↓	↓	7.43	0.607	–	0.07	30.34	2.9	0.395	-592.1	"
15:10	↓	↓	7.43	0.603	–	0.06	30.34	2.9	0.393	-592.5	"
	Sampled at 15:11										
15:20	0234	31-35	7.46	0.492	–	0.06	30.66	2.4	0.325	-601.4	milky gray
15:22	↓	↓	7.46	0.490	–	0.06	30.50	2.3	0.319	-601.7	"
15:24	↓	↓	7.46	0.488	–	0.06	30.43	2.3	0.318	-601.8	"
	Sampled at 15:25										
15:38	0234	36-40	7.49	0.434	–	0.06	30.08	2.1	0.282	-607.3	milky gray
15:40	↓	↓	7.49	0.433	–	0.06	30.06	2.1	0.282	-607.3	"
15:42	↓	↓	7.50	0.433	–	0.06	30.00	2.1	0.281	-607.6	"
	Sampled at 15:43					~~0.06~~	~~30.19~~	~~2.0~~	~~0.269~~	~~-609.2~~	milky gray (CS)
15:57	0234	41-45	7.51	0.412	–	0.06	30.19	2.0	0.269	-609.2	milky gray
15:59	↓	↓	7.52	0.410	–	0.06	30.14	1.9	0.267	-609.2	"
16:01	↓	↓	7.52	0.410	–	0.06	30.01	1.9	0.266	-609.1	"
	Sampled at 16:02								(CS)		
16:18	0234	56-60	7.44	3.780 (CS)	–	0.12	25.26	19.4	2.416	-498.3	(CS) cloudy
16:20	↓	↓	7.42	3.835	–	0.12	24.50	20.2	2.487	-505.4	"
16:22	↓	↓	7.40	3.839	–	0.12	24.37	20.2	2.494	-497.4	"
	Sampled at 16:23										

Notes:

DPT = Direct Push Technology

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/03-04/13 DPT0235 (BC or map) (8-12' done 04/03/13 + rest 04/04/13)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
04/03/13											
16:48	0235	8-12	6.78	0.806	–	0.30	22.91	4.0	0.530	-190.8	cloudy
16:50	↓	↓	6.74	0.802	–	0.31	22.29	4.0	0.521	-193.7	"
16:52	↓	↓	6.65	0.798	–	0.31	22.18	3.9	0.514	-197.4	"
	Sampled at 16:53										
~~16:58~~ ~~13:04~~	0235	16-20	7.10	0.874	–	0.96	22.82	4.3	0.569	-287.8	cloudy gray
09:00	↓	↓	7.11	0.872	–	0.82	22.78	4.3	0.568	-353.2	"
09:02	↓	↓	7.11	0.871	–	0.74	22.73	4.3	0.566	-332.4	"
	Sampled at 09:03										
09:10	0235	21-25	6.92	0.820	–	0.32	22.92	4.0	0.536	-300.7	cloudy brown
09:12	↓	↓	6.89	0.814	–	0.32	22.78	4.0	0.530	-262.3	"
09:14	↓	↓	6.87	0.809	–	0.31	22.69	4.0	0.527	-242.1	"
	Sampled at 09:15										
09:26	0235	26-30	8.21	0.484	–	0.41	22.86	2.4	0.314	-150.9	milky brown
09:28	↓	↓	8.21	0.487	–	0.24	22.83	2.4	0.318	-168.9	"
09:30	↓	↓	8.22	0.483	–	0.22	22.83	2.3	0.315	-180.4	"
	Sampled at 09:31										
09:42	0235	31-35	7.31	(cs) 1.140	–	0.16	23.72	5.7	0.742	-408.6	milky gray
09:44	↓	↓	7.30	1.150	–	0.16	23.68	5.7	0.748	-399.3	"
09:46	↓	↓	7.29	1.160	–	0.15	23.63	5.8	0.755	-393.8	"
	Sampled at 09:47										
09:58	0235	36-40	7.22	1.279	–	0.17	23.35	6.4	0.831	-385.6	cloudy brown
10:00	↓	↓	7.21	1.273	–	0.16	23.30	6.4	0.829	-359.4	"
10:02	↓	↓	7.21	1.268	–	0.15	23.27	6.3	0.825	-346.1	"
	Sampled at 10:03										
10:18	0235	41-45	7.31	1.343	–	0.14	22.94	6.7	0.876	-374.6	cloudy brown
10:20	↓	↓	7.31	1.337	–	0.13	22.97	6.7	0.871	-366.6	"
10:22	↓	↓	7.31	1.332	–	0.13	22.98	6.7	0.867	-360.6	"
	Sampled at 10:23					~~0.13~~ (cs)					
10:35	0235	56-60	7.37	1.730	–	0.15	22.97	8.6	0.999	-277.6	cloudy brown
10:37	↓	↓	7.36	1.752	–	0.18	22.96	8.8	1.133	-275.7	"
10:39	↓	↓	7.36	1.776	–	0.19	22.96	8.9	1.148	-266.5	"
	Sampled at 10:40										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/04/13 DPT0236 (At or near)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
13:00	0236	8-12	7.22	0.979	–	1.11	24.65	4.8	0.637	-134.7	dk. brown cloudy
13:02	↓	↓	7.20	0.970	–	1.81	24.65	4.8	0.634	-140.1	"
13:04	↓	↓	7.19	0.950	–	2.35	24.66	4.7	0.620	-137.6	"
	Sampled at 13:05										
13:16	0236	16-20	7.20	1.090	–	0.26	24.69	5.5	0.715	-228.5	cloudy brown
13:17	↓	↓	7.20	1.086	–	0.24	24.64	5.4	0.706	-262.5	"
13:19	↓	↓	7.21	1.085	–	0.22	24.61	5.4	0.706	-290.3	"
	Sampled at 13:20										
13:32	0236	21-25	7.23	0.758	–	0.19	24.80	3.7	0.492	-524.7	cloudy brown
13:34	↓	↓	7.25	0.754	–	0.19	24.73	3.7	0.491	-528.6	"
13:36	↓	↓	7.25	0.754	–	0.20	24.66	3.7	0.490	-530.1	"
	Sampled at 13:37										
13:43	0236	26-30	7.28	0.723	–	0.13	24.32	3.5	0.470	-554.8	milky gray
13:45	↓	↓	7.28	0.719	–	0.13	24.39	3.5	0.467	-555.1	"
13:47	↓	↓	7.28	0.716	–	0.14	24.43	3.5	0.466	-555.5	"
	Sampled at 13:48										
13:59	0236	31-35	7.30	0.655	–	0.12	24.37	3.2	0.427	-562.1	gray milky
14:01	↓	↓	7.30	0.655	–	0.12	24.37	3.2	0.425	-562.4	"
14:03	↓	↓	7.31	0.653	–	0.11	24.37	3.2	0.425	-562.5	"
	Sampled at 14:04										
14:19	0236	36-40	7.32	0.607	–	0.11	24.39	2.9	0.395	-567.3	cloudy brown
14:21	↓	↓	7.32	0.604	–	0.11	24.40	2.9	0.393	-567.9	"
14:23	↓	↓	7.32	0.604	–	0.11	24.42	2.9	0.393	-567.9	"
	Sampled at 14:24										
14:36	0236	41-45	7.33	0.550	–	0.10	24.45	2.7	0.358	-571.5	brown milky
14:38	↓	↓	7.33	0.554	–	0.10	24.45	2.6	0.358	-571.7	"
14:40	↓	↓	7.33	0.555	–	0.09	24.45	2.6	0.355	-571.8	"
	Sampled at 14:41										
14:55	0236	56-60	7.34	0.521	–	0.10	24.42	2.5	0.339	-574.7	milky brown
14:57	↓	↓	7.34	0.520	–	0.10	24.41	2.5	0.338	-574.8	"
14:59	↓	↓	7.34	0.520	–	0.10	24.39	2.5	0.338	-574.9	"
	Sampled at 15:00										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/05/13 DPT0237 (AZ on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
09:26	0237	8-12	7.02	0.778	–	1.78	21.91	3.8	0.505	-93.5	milky gray
09:28	↓	↓	7.04	0.773	–	1.44	21.89	3.8	0.502	-98.7	"
09:30	↓	↓	7.05	0.772	–	1.33	21.87	3.8	0.501	-102.7	"
	Sampled at 09:31										
09:40	0237	16-20	7.15	0.747	–	0.47	21.08	3.4	0.473	-406.3	milky gray
09:42	↓	↓	7.14	0.704	–	0.40	21.20	3.5	0.464	-424.8	"
09:44	↓	↓	7.15	0.693	–	0.40	21.44	3.4	0.452	-439.4	"
	Sampled at 09:45										
09:51	0237	21-25	7.19	0.596	–	0.25	21.85	3.0	0.397	-528.2	milky gray
09:53	↓	↓	719	0.564	–	0.24	22.04	2.8	0.370	-538.9	"
09:55	↓	↓	7.18	0.553	–	0.26	22.46	2.7	0.361	-530.2	"
	Sampled at 09:56										
10:02	0237	26-30	7.21	0.545	–	0.54	21.73	2.6	0.355	-554.0	milky gray
10:04	↓	↓	7.21	0.545	–	0.74	21.68	2.6	0.354	-554.9	"
10:06	↓	↓	7.22	0.354	–	0.85	21.65	2.6	0.354	-555.5	"
	Sampled at 10:07										
10:15	0237	31-35	7.24	0.535	–	0.99	20.80	2.6	0.349	-564.4	milky gray
10:17	↓	↓	7.24	0.533	–	1.09	20.76	2.6	0.347	-564.8	"
10:19	↓	↓	7.23	0.530	–	1.58	20.73	2.6	0.345	-565.0	"
	Sampled at 10:20										
11:18	0237	36-40	7.07	0.833	–	1.27	19.68	4.1	0.541	-371.6	cloudy gray
11:20	↓	↓	7.08	0.831	–	1.01	19.70	4.1	0.541	-397.4	"
11:22	↓	↓	7.09	0.829	–	0.86	19.72	4.1	0.541	-409.(	"
	Sampled at 11:23										
11:32	0237	41-45	7.21	0.809	–	0.29	20.30	3.9	0.520	-517.4	milky gray
11:34	↓	↓	7.22	0.0806	–	0.27	20.41	3.9	0.526	-519.5	"
11:36	↓	↓	7.21	0.794	–	0.26	20.52	3.9	0.519	-520.5	"
	Sampled at 11:37					~~0.19~~	~~22.42~~	~~3.6~~	~~0.482~~	~~-549.5~~	~~milky gray~~ (DS)
11:47	0237	56-60	7.26	0.761	–	0.17	22.42	3.6	0.482	-549.5	milky gray
11:49	↓	↓	7.26	0.770	–	0.14	22.54	3.7	0.498	-548.6	"
11:51	↓	↓	7.26	0.779	–	0.14	22.60	3.8	0.505	-548.3	"
	Sampled at 11:52										

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/05/13 DPT0238 (BA nmap)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
12:18	0238	8-12	7.11	0.900	–	0.32	23.43	4.6	0.603	-248.1	gray/cloudy
12:20	↓	↓	7.07	0.914	–	0.28	23.25	4.5	0.597	-251.9	"
12:22	↓	↓	7.02	0.906	–	0.55	22.98	4.5	0.591	-254.1	"
	Sampled at 12:23										
12:31	0238	16-20	7.06	0.835	–	0.16	24.35	4.1	0.548	-328.9	gray/cloudy
12:33	↓	↓	7.04	0.829	–	0.16	24.00	4.1	0.539	-304.6	"
12:35	↓	↓	7.00	0.813	–	0.17	23.89	4.0	0.536	-296.9 -296.9	"
	Sampled at 12:36										
12:43	0238	21-25	7.12	0.824	–	0.33	25.29	3.4	0.535	-207.9	milky gray/
12:45	↓	↓	7.11	0.824	–	0.16	25.48	4.0	0.536	-247.9	"
12:47	↓	↓	7.09	0.817	–	0.13	25.44	4.0	0.532	-267.1	"
	Sampled at 12:48										
12:53	0238	26-30	7.23	0.737	–	0.12	25.78	3.5	0.475	-378.6	milky gray/
12:55	↓	↓	7.21	0.741	–	0.11	25.90	3.6	0.481	-384.3	"
12:57	↓	↓	7.20	0.741	–	0.09	25.91	3.6	0.482	-383.9	"
	Sampled at 12:58										
13:06	0238	31-35	7.23	0.756	–	0.25	26.25	6.0	0.786	-233.6	cloudy gray/
13:08	↓	↓	7.21	0.717	–	0.23	26.18	5.6	0.723	-291.6	"
13:10	↓	↓	7.20	0.701	–	0.18	26.17	5.4	0.705	-320.8	"
	Sampled at 13:11										
13:22	0238	36-40	7.19	0.934	–	0.13	26.04	4.7	0.622	-528.7	milky gray/
13:24	↓	↓	7.20	0.909	–	0.11	26.09	4.5	0.597	-531.0	"
13:26	↓	↓	7.20	0.899	–	0.11	26.13	4.4	0.586	-533.0	"
	Sampled at 13:27										
13:37	0238	41-45	7.25	0.801	–	0.10	25.45	4.0	0.526	-557.0	milky gray/
13:39	↓	↓	7.25	0.798	–	0.09	25.43	3.9	0.520	-558.6	"
13:41	↓	↓	7.26	0.794	–	0.08	25.42	3.9	0.517	-559.3	"
	Sampled at 13:42										
13:57	0238	56-60	7.29	0.698	–	0.09	26.50	3.4	0.454	-569.2	milky gray/
13:59	↓	↓	7.29	0.691	–	0.08	26.35	3.4	0.451	-569.7	"
14:01	↓	↓	7.29	0.688	–	0.08	25.94	3.3	0.445	-569.8	"
	Sampled at 14:02										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 25*2

Date: 04/05/13 DPT0239 (BB on map)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
14:25	0239	8-12	7.39	0.656	–	0.18	25.91	3.2	0.426	-502.9	cloudy gray
14:27	↓	↓	7.40	0.652	–	0.20	25.67	3.2	0.425	-516.1	"
14:29	↓	↓	7.41	0.647	–	0.19	25.51	3.1	0.422	-524.2	"
	Sampled at 14:30										
14:35	0239	16-20	7.49	0.600	–	0.19	25.41	3.6	0.417	-560.6	cloudy gray
14:37	↓	↓	7.50	0.522	–	0.14	25.46	2.7	0.344	-562.8	"
14:39	↓	↓	7.50	0.516	–	0.11	25.53	2.5	0.336	-563.9	"
	Sampled at 14:40										
14:45	0239	21-25	7.53	0.460	–	0.11	25.83	2.2	0.299	-579.1	cloudy gray
14:47	↓	↓	7.53	0.459	–	0.10	25.91	2.2	0.299	-579.7	"
14:49	↓	↓	7.53	0.458	–	0.11	25.94	2.2	0.298	-580.2	"
	Sampled at 14:50										
14:59	0239	26-30	7.39	0.806	–	0.17	25.42	3.9	0.519	-437.1	cloudy gray
15:01	↓	↓	7.38	0.809	–	0.14	25.22	3.9	0.527	-456.4	"
15:03	↓	↓	7.37	0.814	–	0.14	25.15	4.0	0.532	-467.5	"
	Sampled at 15:04										
15:12	0239	31-35	7.19	0.717	–	0.10	25.04	3.5	0.463	-516.4	cloudy gray
15:14	↓	↓	7.19	0.710	–	0.10	25.04	3.4	0.460	-517.4	"
15:16	↓	↓	7.19	0.701	–	0.10	25.03	3.4	0.457	-518.4	"
	Sampled at 15:17										
15:29	0239	36-40	7.22	0.802	–	0.12	25.63	3.3	0.522	-554.3	cloudy gray
15:31	↓	↓	7.23	0.777	–	0.08	25.88	3.8	0.525	-558.0	"
15:33	↓	↓	7.24	0.736	–	0.08	26.12	3.7	0.482	-562.4	"
	Sampled at 15:34										
15:45	0239	41-45	7.28	0.690	–	0.07	25.96	3.3	0.448	-583.0	cloudy gray
15:47	↓	↓	7.27	0.676	–	0.08	25.98	3.3	0.442	-584.2	"
15:49	↓	↓	7.27	0.677	–	0.08	26.00	3.3	0.440	-584.1	"
	Sampled at 15:50										
16:03	0239	56-60	7.26	0.685	–	0.08	25.00	3.3	0.445	-590.8	cloudy gray
16:05	↓	↓	7.26	0.684	–	0.08	24.88	3.3	0.445	-590.8	"
16:07	↓	↓	7.26	0.684	–	0.10	24.78	3.3	0.444	-590.9	"
	Sampled at 16:08										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 226.0

Date: 5/23/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
754	226	~~8-12~~ 46-50	7.10	1.745	—	0.97	25.22	0.88	1151	-219.5	grey
756	↓	↓	7.13	1.753	—	0.66	25.23	0.89	1.152	-231.2	↓
758	↓	↓	7.16	1.760	—	0.55	25.23	0.84	1.152	-242.1	↓
	Sampled at 800										
		16-20			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		21-25			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		26-30			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		31-35			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		36-40			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		41-45			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		56-60			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM 228.0 Project/Project Number: CRHE / FR1681 /

Date: 5/22/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
904	228	~~4-8-20~~ 8-12	7.34	1.808	–	1.97	25.66	0.93	1.209	-200.6	grey
906	↓	↓	7.28	1.895	–	0.34	25.57	0.97	1.246	-212.6	↓
908	↓	↓	7.28	1.931	–	0.18	25.94	0.98	1.261	-213.3	↓
	Sampled at 910										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM 230

Project/Project Number: CRHE / FR1681 /

Date: 5/23/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
956		46-50 8-12	7.10	2.041	–	6.09	25.31	1.04	1.326	-94.0	grey
958	↓	↓	7.41	2.038	–	3.10	25.29	1.04	1.324	-101.4	1
1000	↓	↓	6.94	2.037	–	2.42	25.27	1.04	1.324	-106.6	1
	Sampled at 1002										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 231

Date: 5/23/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
904	231	~~10-12~~	7.46	2.186	–	4.98	26.57	1.12	1.422	-209.4	grey
906	↓	↓	7.42	2.173	–	0.80	27.06	1.10	1.405	-218.0	"
908	↓	↓	7.41	2.155	–	0.52	27.24	1.09	1.398	-224.7	"
	Sampled at 910	~~46-50~~ 16-20	(46-50)								
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

CRHE DPT 008-0012 B

CRHE-DPT 0185-018.0-20130520

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 /

Date: 5/20/13 BL - 240.0

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	ppt DPT Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
930	240	8-12	7.08	0.870	–	2.05	24.49	0.39	0.533	-539.5	grey
932	↓	↓	7.06	0.794	–	1.04	23.85	0.39	0.513	-553.4	cloudy
934	↓	↓	7.05	0.783	–	1.03	23.77	0.38	0.507	-556.6	Clouds
	Sampled at 930										
944	240	16-20	7.13	0.958	–	3.78	25.29	0.48	0.634	-557.9	cloudy
946	↓	↓	7.14	0.978	–	1.18	25.42	0.48	0.636	-582.7	cloudy
948	↓	↓	7.15	0.976	–	0.78	25.38	0.48	0.633	-591.5	cloudy
	Sampled at 950										
955	240	21-25	7.29	0.835	–	1.05	26.08	0.41	0.547	-591.2	Cloudy
957	↓	↓	7.30	0.846	–	1.17	26.10	0.41	0.553	-592.9	cloudy
959	↓	↓	7.31	0.855	–	0.87	26.12	0.42	0.559	-594.7	cloudy
	Sampled at 1002										
1005	240	26-30	7.62	1.084	–	2.79	26.13	0.55	0.731	-572.8	cloudy
1007	↓	↓	7.50	1.133	–	2.71	25.88	0.56	0.732	-601.6	cloudy
1010	↓	↓	7.52	1.118	–	1.66	25.65	0.55	0.726	-609.3	cloudy
	Sampled at 1012										
1020	240	31-35	7.58	1.378	–	2.32	25.94	0.70	0.910	-597.9	cloudy
1022	↓	↓	7.52	1.417	–	1.71	25.96	0.71	0.921	-603	cloudy
1024	↓	↓	7.52	1.437	–	1.29	25.83	0.72	0.939	-609.9	cloudy
	Sampled at 1026										
1030	240	36-40	7.82	0.772	–	5.49	25.79	0.73	0.959	-533.7	cloudy
1032	↓	↓	7.32	1.494	–	2.04	25.99	0.75	0.983	-438.7	↓
1034	↓	↓	7.33	1.520	–	1.37	25.90	0.76	0.991	-421.9	↓
	Sampled at 1036										
1040	240	add'l 41-45	7.41	1.615	–	4.68	25.44	0.84	1.086	-473.9	grey
1042	↓	↓	7.29	1.681	–	2.04	25.63	0.85	1.095	-449.3	grey
1044	↓	↓	7.28	1.685	–	1.34	25.63	0.85	1.097	-579.4	cloudy
	Sampled at 1046							1.65			
1050	240	56-60	7.48	3.111	–	4.56	26.16	1.58	2.078	-568.9	cloudy
1052	↓	↓	7.49	3.192	–	2.04	26.16	1.66	2.086	-581.7	↓
1054	↓	↓	7.49	3.247	–	1.44	26.17	1.72	2.162	-586.3	↓
	Sampled at 1056										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 /

Date: 5/20/13 BM - 241

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1134	241	8-12	7.03	0.830	–	5.80	28.21	0.46	0.605	-259.9	grey
1136	↓	↓	7.32	0.924	–	4.01	27.45	0.45	0.598	-429.3	cloudy
1138	↓	↓	7.33	0.920	–	2.77	27.50	0.45	0.598	-484.2	grey
	Sampled at 1140										
1144	241	16-20	7.31	1.018	–	3.91	27.23	0.50	0.657	-417.9	cloudy
1146	↓	↓	7.20	1.002	–	2.06	26.53	0.49	0.654	-466.9	cloudy
1148	↓	↓	7.16	1.008	–	1.46	26.25	0.50	0.655	-488.7	cloudy
	Sampled at 1150										
	241	21-25	7.36	0.918	–	6.34	25.61	0.45	0.600	-575.3	cloudy
1240 1154	↓	↓	7.30	0.924	–	5.08	25.52	0.45	0.602	-509.6	cloudy
1242 1156	↓	↓	7.26	0.929	–	3.33	25.41	0.46	0.605	-503.1	cloudy
1249 1158	Sampled at 1200										
	241	26-30	7.43	1.003	–	1.26	27.13	0.49	0.651	-400.9	cloudy
1250	↓	↓	7.40	1.000	–	0.80	26.32	0.49	0.649	-414.8	cloudy
1252	↓	↓	7.38	0.998	–	0.61	26.22	0.49	0.648	-399.1	cloudy
1254	Sampled at 1256										
	241	31-35	7.51	1.212	–	2.36	27.95	0.60	0.792	-478.8	cloudy
1300	↓	↓	7.49	1.238	–	0.54	27.57	0.61	0.808	-489.2	cloudy
1302	↓	↓	7.47	1.246	–	0.38	27.44	0.62	0.811	-492.3	cloudy
1304	Sampled at 1306										
1310	241	36-40	7.41	1.110	–	3.06	28.60	0.56	0.736	-486.9	cloudy
1312 1310	↓	↓	7.36	1.143	–	0.43	28.45	0.57	0.751	-512.4	cloudy
1314 1312	↓	↓	7.37	1.164	–	0.20	28.58	0.58	0.761	-520.0	cloudy
1314	Sampled at 1316										
1320	241	41-45	7.32	1.498	–	1.46	28.50	0.75	0.984	-487.0	cloudy
1322	↓	↓	7.31	1.534	–	0.20	27.40	0.79	1.033	-439.3	cloudy
1324	↓	↓	7.31	1.596	–	0.17	27.13	0.80	1.039	-441.7	cloudy
	Sampled at 1326										
	241	56-60			–						
1340	↓	↓	7.42	2.237	–	1.76	29.01	1.21	1.549	-540.0	cloudy
1342	↓	↓	7.47	2.433	–	0.34	28.37	1.29	1.639	-552.0	cloudy
1344	Sampled at 1346		7.47	2.917		0.16	28.13	1.60	2.070	-579.8	cloudy

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/20/13 BQ - 242.0

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1434	242	8-12	7.22	1.282	–	1.82	28.41	0.63	0.826	-364.1	cloudy
1436	↓	↓	7.16	1.260	–	1.01	28.44	0.62	0.813	-3861	↓
1438	↓	↓	7.16	1.245	–	0.89	28.45	0.61	0.806	-3966	↓
	Sampled at 1440										
1444	242	16-20	7.34	1.481	–	1.95	27.97	0.74	0.969	-393.7	grey
1446	↓	↓	7.35	1.496	–	0.47	27.96	0.75	0.974	-416.1	↓
1448	↓	↓	7.35	1.501	–	0.32	27.97	0.75	0.977	-416.3	↓
	Sampled at 1450										
1454	242	21-25	7.04	1.161	–	7.02	28.57	0.57	0.756	-317.5	grey
1456	↓	↓	6.99	1.163	–	0.57	28.21	0.57	0.754	-313.5	↓
1458	↓	↓	6.96	1.154	–	0.29	28.03	0.57	0.747	-385.7	↓
	Sampled at 1500										
1504	242	26-30	7.20	1.078	–	5.08	29.32	0.54	0.715	-434.4	grey
1506	↓	↓	7.19	1.113	–	1.21	29.25	0.55	0.725	-4763	↓
1508	↓	↓	7.19	1.121	–	0.47	29.33	0.55	0.726	-4783.2	↓
	Sampled at 1510										
1535	242	31-35	7.09	0.738	–	4.77	29.97	0.29	0.353	-378.0	clouds
1537	↓	↓	7.07	0.400	–	1.04	29.71	0.18	0.248	-4608	↓
1539	↓	↓	7.07	0.377	–	0.61	29.68	0.18	0.244	-4788	↓
	Sampled at 1542										
1546	242	36-40	7.20	1.383	–	4.11	28.85	0.72	0.947	-419.7	grey
1548	↓	↓	7.13	1.501	–	1.47	28.86	0.75	0.975	-4739	↓
1550	↓	↓	7.07	1.505	–	0.79	28.81	0.75	0.980	-4794	↓
	Sampled at 1552										
1556	242	41-45	7.19	1.802	–	3.03	27.09	0.93	1.210	-435.9	grey
1558	↓	↓	7.18	1.881	–	0.49	28.40	0.95	1.219	-4809	↓
1600	↓	↓	7.18	1.869	–	0.23	28.68	0.94	1.211	-4936	↓
	Sampled at 1602										
1624	242	56-60	7.08	3.142	–	1.57	24.89	1.69	2.163	-382.4	grey
1626	↓	↓	7.18	3.599	–	0.82	27.59	1.92	2.398	-433.5	↓
1628	↓	↓	7.20	3.755	–	0.30	27.33	2.01	2.489	-433.4	↓
	Sampled at 1630										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Date: 5/21/B242. – BQ

Project/Project Number: CRHE / FR1681 /

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1429	242	05-10 / 8-12	7.49	3.487	–	0.04	25.65	1.85	2.308	-496.6	grey
1431	↓	↓	7.52	3.649	–	0.04	25.99	1.94	2.409	-487.7	cloudy
1433	↓	↓	7.52	3.750	–	0.04	26.09	1.98	2.459	-482.0	↓
	Sampled at	1435									
		16-20			–						
	↓	↓			–						
					–						
	Sampled at										
		21-25			–						
	↓	↓			–						
					–						
	Sampled at										
		26-30			–						
	↓	↓			–						
					–						
	Sampled at										
		31-35			–						
	↓	↓			–						
					–						
	Sampled at										
		36-40			–						
	↓	↓			–						
					–						
	Sampled at										
		41-45			–						
	↓	↓			–						
					–						
	Sampled at										
		56-60			–						
	↓	↓			–						
					–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM AF - 243.0 Project/Project Number: CRHE / FR1681 /

Date: 5/21/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
809	243	~~10-20~~ ~~8-12~~	7.26	1.938	–	4.65	25.35	0.99	1.269	-210.6	grey
811	↓	↓	7.25	1.969	–	2.12	25.53	1.00	1.287	-261.9	↓
813	↓	↓	7.25	1.986	–	1.38	25.53	1.01	1.294	-297.0	↓
	Sampled at 815										
820	243	~~21-35~~ ~~16-20~~	7.12	1.475	–	0.65	25.33	0.74	0.955	-236.6	grey
822	↓	↓	7.12	1.466	–	0.50	25.29	0.73	0.951	-240.2	↓
824	↓	↓	7.12	1.461	–	0.39	25.27	0.73	0.948	-257.6	↓
	Sampled at 826										
830	243	~~26-30~~ ~~21-25~~	7.63	1.532	–	3.24	24.93	0.78	1.013	-208.7	grey
832	↓	↓	7.58	1.595	–	0.27	25.15	0.80	1.042	-253.1	↓
834	↓	↓	7.60	1.617	–	0.21	25.16	0.82	1.062	-240.0	↓
	Sampled at 836										
840	243	~~31-35~~ ~~26-30~~	7.65	1.377	–	4.87	26.04	0.78	1.013	-230.6	grey
842	↓	↓	7.30	1.570	–	2.17	26.14	0.79	1.025	-320.3	↓
844	↓	↓	7.30	1.581	–	1.35	26.16	0.79	1.029	-375.1	↓
	Sampled at 846										
850	243	~~36-40~~ ~~31-35~~	7.42	1.605	–	0.30	26.51	0.84	1.099	-520.5	grey
852	↓	↓	7.35	1.723	–	0.32	26.32	0.88	1.131	-515.3	↓
854	↓	↓	7.32	1.746	–	0.33	26.03	0.88	1.138	-509.8	↓
	Sampled at 856										
900	243	~~41-45~~ ~~36-40~~	7.55	1.667	–	1.92	26.26	0.87	1.132	-441.3	grey
902	↓	↓	7.52	1.608	–	0.45	26.13	0.93	1.208	-458.3	↓
904	↓	↓	7.51	1.878	–	0.23	26.50	0.95	1.229	-467.3	↓
	Sampled at 906										
910	243	~~46-50~~ ~~41-45~~	7.67	2.157	–	5.30	27.17	1.11	1.421	-250.3	grey
912	↓	↓	7.43	2.217	–	2.04	26.93	1.13	1.448	-323.9	↓
914	↓	↓	7.40	2.235	–	1.18	26.92	1.14	1.458	-373.5	↓
	Sampled at 916										
920	243	56-60	7.22	3.295	–	4.74	26.21	1.80	2.263	-171.2	grey
922	↓	↓	7.58	3.787	–	2.19	25.76	1.92	2.394	-182.9	↓
924	↓	↓	7.51	3.721	–	1.37	25.47	1.97	2.436	-184.9	↓
	Sampled at 926										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 /

Date: 5/21/13 BU ~ 244.0

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1209	244	~~11-20~~	7.43	1.857	–	4.95	25.95	0.95	1.229	-224.6	grey
1211	↓	↓	7.37	1.909	–	2.45	26.03	0.97	1.250	-243.5	↓
1213	↓	↓	7.35	1.929	–	1.80	26.00	0.98	1.257	-245.6	↓
	Sampled at 1215										
1220	244	~~16-20~~ 21-25	7.42	1.848	–	3.71	25.35	0.94	1.207	-185.5	grey cloudy
1222	↓	↓	7.37	1.877	–	1.77	25.52	0.96	1.232	-226.9	↓
1224	↓	↓	7.37	1.908	–	1.07	25.50	0.97	1.248	-256.5	↓
	Sampled at 1226										
1230	244	~~21-25~~ 26-30	7.32	1.664	–	2.68	25.62	0.84	1.094	-153.6	cloudy
1232	↓	↓	7.27	1.698	–	1.72	25.55	0.86	1.111	-156.3	↓
1234	↓	↓	7.26	1.717	–	1.22	25.47	0.87	1.118	-157.1	↓
	Sampled at 1236										
1244	244	~~26-30~~ 31-35	5.63	1.222	–	3.87	25.78	0.61	0.804	-243.9	cloudy
1246	↓	↓	7.26	1.249	–	2.03	25.88	0.62	0.819	-314.6	↓
1248	↓	↓	7.25	1.270	–	1.43	25.92	0.63	0.830	-320.4	↓
	Sampled at 1250										
1250	244	~~31-35~~ 36-40	7.55	1.440	–	4.27	26.61	0.74	0.972	-333.6	grey
1258	↓	↓	7.40	1.506	–	2.00	26.54	0.75	0.983	-413.6	↓
1300	↓	↓	7.40	1.508	–	1.30	26.63	0.75	0.975	-433.2	↓
	Sampled at 1306										
1306	244	~~36-40~~ 41-45	7.45	1.775	–	4.20	25.89	0.92	1.198	-293.9	cloudy
1308	↓	↓	7.41	1.879	–	2.11	26.07	0.96	1.238	-357.9	↓
1310	↓	↓	7.41	1.921	–	1.55	26.11	0.98	1.256	-384.1	↓
	Sampled at 1312										
1320	244	~~41-45~~ 46-50	7.62	1.296	–	2.76	24.80	0.79	1.073	-295.1	cloudy
1322	↓	↓	7.60	1.783	–	1.69	25.39	0.93	1.201	-398.1	↓
1324	↓	↓	7.60	1.894	–	1.45	25.51	0.97	1.250	-429.1	↓
	Sampled at 1326										
1330	244	~~46-50~~ 51-55	7.66	1.834	–	1.03	24.90	0.81	1.039	-532.9	grey
1332	↓	↓	7.66	1.578	–	0.81	25.00	0.79	1.027	-540.2	↓
1334	↓	↓	7.67	1.599	–	0.910	25.14	0.82	1.040	-541.3	↓
	Sampled at 1336										

Notes:

DPT = Direct Push Technology

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 /

Date: 5/23/13 244

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
832	244	~~6.12~~ 6-20	7.58	1.101	–	9.7	26.68	0.56	0.743	-154.0	grey
834	↓	↓	7.50	1.164	–	3.23	26.58	1.52	1.903	-236.8	↓
836	↓	↓	7.58	2.928	–	0.69	26.60	1.33	1.653	-247.5	↓
	Sampled at 840										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/21/13

BS-245.0

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1509	245	~~16-20~~ ~~8-12~~	7.11	1.306	–	3.53	26.69	0.65	0.845	-183.1	grey
1511	↓	↓	7.08	1.295	–	1.79	26.70	0.64	0.841	-212.4	↓
1513	↓	↓	7.07	1.292	–	1.57	26.70	0.64	0.839	-236.1	↓
	Sampled at 1515										
1920	245	~~21-25~~ ~~16-20~~	7.17	1.307	–	1.08	26.71	0.65	0.851	-125.9	grey
1522	↓	↓	7.06	1.308	–	0.47	26.48	0.65	0.848	-137.2	cloudy
1524	↓	↓	7.02	1.303	–	0.40	26.29	0.65	0.845	-144.9	↓
5/22/13	Sampled at 1526										
724	245	~~26-30~~ ~~21-25~~	7.68	0.891	–	3.05	23.68	0.48	0.647	-87.1	cloudy
726	↓	↓	7.33	1.043	–	0.89	24.20	0.53	0.695	-116.7	↓
728	↓	↓	7.28	1.087	–	0.63	24.43	0.54	0.718	-123.1	↓
	Sampled at 730										
734	245	~~31-35~~ ~~26-30~~	7.42	1.138	–	1.18	23.43	0.56	0.723	-470.2	cloudy
736	↓	↓	7.35	1.124	–	0.83	24.50	0.56	0.723	-436.1	↓
738	↓	↓	7.25	1.126	–	0.97	24.86	0.56	0.728	-400.9	↓
	Sampled at 740										
750 ~~750~~	245	~~36-40~~ ~~31-35~~	7.51	1.679	–	5.04	24.07	0.86	~~0.723~~ 1.023	~~-190.2~~	cloudy
752 ~~752~~	↓	↓	7.15	1.637	–	0.64	24.43	0.86	~~0.728~~ 1.041	~~-170.2~~	↓
754 ~~754~~	↓	↓	7.13	1.595	–	0.35	24.63	0.85	~~0.728~~ 1.026	-178.8	↓
	Sampled at 756										
802	245	~~41-45~~ ~~36-40~~	7.38	2.249	–	2.81	24.16	1.07	1.440	-213.5	cloudy
804	↓	↓	7.19	2.265	–	0.18	24.79	1.17	1.484	-222.5	↓
806	↓	↓	7.16	2.294	–	0.10	24.98	1.18	1.479	-232.0	↓
	Sampled at 810										
814	245	~~46-50~~ ~~41-45~~	7.21	2.125	–	2.95	24.34	1.14	1.461	-179.6	grey
816	↓	↓	7.15	2.309	–	0.26	24.84	1.20	1.530	-183.6	↓
820	↓	↓	7.14	2.388	–	0.16	24.97	1.24	1.579	-169.4	↓
	Sampled at 824										
828	245	56-60	7.43	3.461	–	4.32	23.99	1.83	2.263	-152.0	grey
830	↓	↓	7.33	3.534	–	0.32	24.77	1.88	2.332	-167.1	↓
832	↓	↓	7.32	3.619	–	0.16	24.88	1.91	2.369	-172.5	↓
	Sampled at 834										

Notes:

DPT = Direct Push Technology

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Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/22/18

BD-246.0

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
930	246	8-12	6.72	0.906	–	0.66	25.32	0.44	0.582	-105.7	brown
932	↓	↓	8.67	0.889	–	0.17	24.99	0.43	0.575	-113.3	↓
934	↓	↓	6.65	0.881	–	0.11	24.73	0.43	0.571	-115.5	↓
	Sampled at 936										
940	246	16-20	7.13	0.967	–	2.62	26.06	0.48	0.633	-114.8	grey
942	↓	↓	6.96	0.979	–	0.46	25.73	0.48	0.638	-134.3	↓
944	↓	↓	6.93	0.984	–	0.15	25.71	0.48	0.640	-139.4	↓
	Sampled at 946										
952	246	21-25	7.27	0.949	–	7.05	26.31	0.47	0.620	-90.6	grey
954	↓	↓	7.01	0.957	–	2.76	25.85	0.47	0.623	-99.3	↓
956	↓	↓	6.96	0.959	–	0.60	25.57	0.47	0.623	-104.0	↓
	Sampled at 958										
1004	246	26-30	7.17	1.068	–	4.79	26.20	0.53	0.700	-114.2	grey
1006	↓	↓	7.09	1.080	–	0.67	25.55	0.53	0.702	-95.4	↓
1008	↓	↓	7.04	1.014	–	0.23	25.38	0.53	0.698	-95.0	↓
	Sampled at 1010										
1014	246	31-35	7.14	1.529	–	1.47	25.98	0.78	1.015	-127.0	grey
1016	↓	↓	7.04	1.584	–	0.28	25.67	0.80	1.043	-117.4	↓
1018	↓	↓	6.96	1.608	–	0.14	25.41	0.81	1.043	-109.2	↓
	Sampled at 1020										
1024	246	36-40	7.22	1.811	–	3.24	26.76	0.95	1.258	-159.4	grey
1026	↓	↓	7.11	1.968	–	0.36	26.18	1.01	1.303	-146.5	↓
1028	↓	↓	7.04	2.018	–	0.19	25.87	1.393	1.370	-138.6	↓
	Sampled at 1030										
1034	246	41-45	7.33	1.875	–	3.70	26.51	0.97	1.247	-170.5	grey
1036	↓	↓	7.33	1.935	–	0.30	26.41	0.98	1.258	-188.5	↓
1038	↓	↓	7.23	1.934	–	0.16	26.49	0.98	1.258	-198.2	↓
	Sampled at 1040										
1044	246	56-60	8.00	4.100	–	1.47	26.55	2.19	2.690	-195.9	grey
1046	↓	↓	7.41	4.124	–	0.24	26.58	2.17	2.674	-204.9	↓
1048	↓	↓	7.42	4.110	–	0.13	26.76	2.16	2.663	-210.3	↓
	Sampled at 1050										

Notes:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/22/13 CC-247.0

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1110	247	8-12	7.19	0.986	–	0.14	27.71	0.48	0.641	-178.6	grey
1112	↓	↓	7.16	0.985	–	0.17	27.70	0.48	0.640	-184.6	↓
1114	↓	↓	7.16	0.983	–	0.29	27.68	0.48	0.637	-189.6	↓
	Sampled at 1116										
1120	247	16-20	7.16	1.159	–	0.14	27.13	0.58	0.770	-135.7	grey
1122	↓	↓	7.10	1.200	–	0.38	26.85	0.60	0.787	-150.6	↓
1124	↓	↓	7.11	1.215	–	0.14	26.66	0.60	0.792	-162.6	↓
	Sampled at 1126										
1130	247	21-25	6.91	1.294	–	4.33	27.20	0.64	0.844	-80.7	grey
1132	↓	↓	6.76	1.302	–	0.82	26.84	0.65	0.848	-79.8	↓
1134	↓	↓	6.71	1.306	–	0.24	26.53	0.65	0.849	-77.6	↓
	Sampled at 1136										
1140	247	26-30	6.99	1.338	–	1.01	26.78	0.67	0.876	-117.8	grey
1142	↓	↓	6.99	1.352	–	1.50	26.76	0.67	0.881	-118.0	↓
1144	↓	↓	6.99	1.356	–	1.74	26.75	0.67	0.881	-119.2	↓
	Sampled at 1146										
1150	247	31-35	7.19	1.430	–	6.36	26.28	0.72	0.936	-120.1	grey
1152	↓	↓	6.99	1.444	–	1.32	26.25	0.72	0.940	-123.8	↓
1154	↓	↓	6.95	1.449	–	0.80	26.20	0.72	0.942	-125.3	↓
	Sampled at 1156										
1200	247	36-40	7.27	1.532	–	0.55	25.73	0.80	1.064	-160.1	grey
1202	↓	↓	7.00	1.707	–	0.32	25.80	0.87	1.132	-150.4	↓
1204	↓	↓	6.93	1.762	–	0.18	25.66	0.90	1.159	-139.4	↓
	Sampled at 1206										
1210	247	41-45	7.27	1.825	–	1.68	25.40	0.93	1.205	-120.4	grey
1212	↓	↓	7.07	1.917	–	0.52	25.44	0.99	1.270	-120.4	↓
1214	↓	↓	7.02	1.971	–	0.23	25.27	1.01	1.298	-111.0	↓
	Sampled at 1216										
1220	247	56-60	7.86	0.358	–	5.32	25.76	1.04	2.589	-154.8	grey
1222	↓	↓	7.37	4.078	–	1.23	25.98	2.17	2.666	-188.2	↓
1224	↓	↓	7.38	4.125	–	0.38	25.97	2.19	2.696	-194.5	↓
	Sampled at 1226										

Notes:

DPT = Direct Push Technology

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / CC.-247

Date: 3/23/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1312	247	6~~8~~-10 ~~8-12~~	7.20	6.063	–	0.25	25.99	3.29	3.940	-147.3	grey
1314	↓	↓	7.20	6.061	–	0.25	25.94	3.29	3.940	-148.7	"
1316	↓	↓	7.20	6.061	–	0.26	25.88	3.29	3.939	-149.2	"
	Sampled at 1318										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/22/13 BK-248

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
210	248	8-12	6.85	0.825	–	1.25	26.95	0.40	0.528	-84.6	grey
212	↓	↓	6.80	0.801	–	0.90	26.73	0.39	0.519	-86.1	↓
214	↓	↓	6.77	0.777	–	0.76	26.53	0.38	0.502	-86.4	↓
	Sampled at 216										
222	248	16-20	7.05	1.138	–	1.52	27.45	0.56	0.740	-149.1	grey
224	↓	↓	6.92	1.144	–	0.44	26.27	0.57	0.743	-143.1	↓
226	↓	↓	6.82	1.141	–	0.31	25.49	0.57	0.744	-137.1	↓
	Sampled at 228										
233	248	21-25	6.91	1.157	–	0.30	26.69	0.57	0.751	-111.2	grey
235	↓	↓	6.89	1.155	–	0.26	26.40	0.57	0.750	-108.7	↓
237	↓	↓	6.87	1.154	–	0.25	26.20	0.57	0.752	-108.1	↓
	Sampled at 239										
244	248	26-30	7.29	1.409	–	4.14	27.93	0.70	0.917	-101.1	grey
246	↓	↓	7.03	1.418	–	0.62	26.75	0.71	0.928	-93.5	↓
248	↓	↓	6.96	1.431	–	0.25	26.44	0.72	0.932	-89.6	↓
	Sampled at 250										
254	248	31-35	7.16	1.808	–	4.66	28.84	0.91	1.202	-152.6	grey
256	↓	↓	7.10	1.881	–	0.89	28.08	0.94	1.216	-159.4	↓
258	↓	↓	7.08	1.876	–	0.39	27.65	0.95	1.224	-164.5	↓
	Sampled at 300										
1504	248	36-40	7.25	1.752	–	2.14	28.69	0.91	1.177	-181.7	grey
1506	↓	↓	7.18	1.828	–	0.40	28.68	0.92	1.194	-195.2	↓
1508	↓	↓	7.18	1.838	–	0.23	28.70	0.93	1.196	-203.5	↓
	Sampled at 1510										
1514	248	41-45	7.40	1.670	–	2.76	28.25	0.85	1.104	-198.4	grey
1516	↓	↓	7.35	1.711	–	0.44	28.25	0.86	1.120	-219.4	grey
1518	↓	↓	7.37	1.728	–	0.19	28.27	0.87	1.126	-233.2	↓
	Sampled at 1520										
1526	248	56-60	7.42	3.499	–	0.25	28.30	1.87	2.352	-235.7	grey
1528	↓	↓	7.47	3.605	–	0.09	28.13	1.89	2.349	-249.2	↓
1530	↓	↓	7.48	3.621	–	0.07	28.16	1.89	2.353	-261.4	↓
	Sampled at 1532										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 249 – BN

Date: 5/23/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1032	249	8-12	6.78	0.712	–	2.60	24.80	0.35	0.463	-75.2	grey
1034	↓	↓	6.76	0.712	–	2.39	24.92	0.35	0.463	-76.0	↓
1036	↓	↓	6.76	0.712	–	2.29	25.03	0.35	0.463	-77.0	↓
	Sampled at 1038										
1042	249	16-20	7.04	1.164	–	0.93	27.30	0.57	0.756	-163.5	grey
1044	↓	↓	7.04	1.163	–	0.87	27.19	0.57	0.755	-167.6	↓
1046	↓	↓	7.04	1.161	–	0.69	27.14	0.57	0.755	-169.0	↓
	Sampled at 1048										
1054	249	21-25	7.27	1.371	–	0.43	27.05	0.68	0.890	-131.3	grey
1056	↓	↓	7.04	1.377	–	1.37	27.00	0.69	0.901	-139.3	↓
1058	↓	↓	6.99	1.395	–	0.69	26.87	0.70	0912	-141.2	↓
	Sampled at 1100										
1102	249	26-30	7.53	1.312	–	2.84	29.89	0.65	0.855	-198.0	grey
1104	↓	↓	7.53	1.317	–	0.86	29.94	0.65	0.856	-199.7	↓
1106	↓	↓	7.55	1.318	–	0.55	29.95	0.65	0.858	-204.1	↓
	Sampled at 1108										
1118	249	31-35	7.16	1.028	–	9.16	29.54	0.92	1.201	-194.1	grey
1120	↓	↓	7.11	1.868	–	1.76	28.66	0.95	1.223	-197.0	↓
1122	↓	↓	7.10	1.881	–	0.47	27.79	0.94	1.213	-186.9	↓
	Sampled at 1124										
1130	249	36-40	7.13	1.889	–	0.82	28.33	0.97	1.248	-179.0	grey
1132	↓	↓	7.09	1.939	–	0.24	28.19	0.99	1.271	-175.2	↓
1134	↓	↓	7.06	1.963	–	0.18	28.09	1.00	1.285	-170.3	↓
	Sampled at 1136										
1142	249	41-45	7.11	1.894	–	0.24	27.41	0.96	1.239	-161.7	grey
1144	↓	↓	7.05	1.909	–	0.17	26.41	0.97	1.242	-143.4	↓
1146	↓	↓	6.99	1.912	–	0.16	25.99	0.97	1.243	-131.7	↓
	Sampled at 1148										
1158	249	56-60	7.34	4.401	–	1.58	28.69	2.39	2.965	-193.5	a.
1200	↓	↓	7.36	4.484	–	0.23	28.55	2.50	3.071	-2??	
1202	↓	↓	7.38	4.790	–	0.12	28.46	2.57	3.156		
	Sampled at 1204										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / I-250

Date: 5/23/13

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	250	8-12	7.30	0.958	–	9.54	33.89	0.40	0.526	-134.0	grey
1346	↓	↓	7.01	0.781	–	2.78	33.01	0.37	0.504	-137.5	↓
1348	↓	↓	6.96	0.773	–	2.05	32.42	0.37	0.501	-139.2	↓
1350	Sampled at 1352										
	250	16-20	6.82	0.989	–	0.85	31.05	0.48	0.627	-157.8	grey
1354	↓	↓	6.80	0.973	–	0.76	30.57	0.47	0.617	-160.0	↓
1356	↓	↓	6.79	0.958	–	0.72	30.16	0.46	0.607	-161.9	↓
1358	Sampled at 200										
1402	250	21-25	7.05	1.033	–	0.12	31.68	0.51	0.677	-169.6	grey
1404	↓	↓	7.03	1.046	–	0.12	31.78	0.51	0.682	-179.6	↓
1406	↓	↓	7.02	1.052	–	0.13	31.80	0.51	0.684	-176.2	↓
	Sampled at 1408										
1412	250	26-30	6.98	1.016	–	0.86	32.71	0.50	0.662	-185	grey
1414	↓	↓	6.86	1.017	–	0.26	31.52	0.49	0.658	-113.5	↓
1416	↓	↓	6.80	1.013	–	0.20	30.24	0.49	0.656	-110.8	↓
	Sampled at 1418										
1424	250	31-35	7.45	1.107	–	2.55	32.33	0.55	0.735	-149.6	grey
1426	↓	↓	7.07	1.140	–	0.36	32.58	0.56	0.746	-165.4	↓
1428	↓	↓	7.00	1.151	–	0.17	32.41	0.56	0.750	-169.2	↓
	Sampled at 1430										
1436	250	36-40	7.38	1.025	–	2.08	32.38	0.51	0.682	-171.0	grey
1440	↓	↓	7.26	1.054	–	0.33	31.82	0.52	0.686	-185.0	↓
1442	↓	↓	7.26	1.056	–	0.19	31.65	0.52	0.687	-190.7	↓
	Sampled at 1446										
1450	250	41-45	7.14	2.160	–	0.24	30.53	1.11	1.421	-158.6	grey
1452	↓	↓	7.09	2.193	–	0.15	29.86	1.11	1.424	-152.7	↓
1454	↓	↓	7.06	2.192	–	0.14	29.69	1.11	1.428	-149.0	↓
	Sampled at 1456										
1506	250	56-60	7.34	3.739	–	0.39	31.84	1.95	2.435	-214.4	grey
1508	↓	↓	7.36	3.741	–	0.26	31.87	1.94	2.427	-219.3	↓
1510	↓	↓	7.37	3.744	–	0.19	32.03	1.96	2.454	-221.9	↓
	Sampled at 1512										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

east of DPT0135

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/23/13

CA-251

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
345	251	8-12	2.24	0.961	–	1.37	30.02	0.46	0.603	-98.8	grey
347	↓	↓	6.64	0.808	–	0.32	28.86	0.41	0.542	-99.6	↓
349	↓	↓	6.53	0.810	–	0.20	28.23	0.38	0.507	-98.6	↓
	Sampled at 351										
1554	251	16-20	6.87	1.229	–	0.56	30.48	0.60	0.798	-128.4	grey
1556	↓	↓	6.81	1.227	–	0.22	29.90	0.60	0.796	-125.0	↓
1558	↓	↓	6.79	1.225	–	0.14	29.27	0.60	0.796	-121.5	↓
	Sampled at 1600										
1604	251	21-25	6.86	1.229	–	2.48	30.14	0.59	0.780	-135.2	grey
1606	↓	↓	6.86	1.177	–	0.45	29.95	0.58	0.761	-133.1	↓
1608	↓	↓	6.85	1.165	–	0.21	29.50	0.57	0.752	-133.8	↓
	Sampled at 1610										
1614	251	26-30	7.26	1.254	–	1.09	31.08	0.62	0.826	-131.3	grey
1616	↓	↓	7.09	1.282	–	0.23	28.93	0.64	0.835	-117.7	↓
1618	↓	↓	6.96	1.283	–	0.16	28.10	0.63	0.832	-109.2	↓
	Sampled at 1620										
1622	251	31-35	7.38	1.140	–	1.35	30.22	0.57	0.754	-166.2	grey
1624	↓	↓	7.29	1.171	–	0.34	30.12	0.58	0.774	-174.9	↓
1626	↓	↓	7.26	1.193	–	0.18	29.99	0.59	0.778	-180.2	↓
	Sampled at 1628										
1630	251	36-40	7.30	1.324	–	1.47	30.50	0.66	0.874	-161.1	grey
1632	↓	↓	7.22	1.377	–	0.28	30.22	0.69	0.913	-176.0	↓
1634	↓	↓	7.27	1.426	–	0.17	29.95	0.72	0.941	-181.4	↓
	Sampled at 1635										
1646	251	41-45	7.42	1.364	–	1.36	30.28	0.68	0.890	-162.5	grey
1648	↓	↓	7.35	1.375	–	0.34	30.10	0.68	0.899	-172.7	↓
1650	↓	↓	7.33	1.390	–	0.22	29.98	0.69	0.909	-178.3	↓
	Sampled at 1652										
1658	251	56-60	7.37	2.910	–	6.66	29.01	0.151	1.909	-168.1	grey
1700	↓	↓	7.24	~~0.972~~ 2.944	–	0.66	29.04	1.55	1.979	-184.9	↓
1702	↓	↓	7.25	3.136	–	0.24	28.92	1.69	2.134	-198.5	↓
	Sampled at 1704										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 /

Date: 5/24/13

DN - 252

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
743	252	8-12	7.02	0.480	–	10.10	24.55	0.40	0.528	57.7	grey
745	↓	↓	6.56	0.796	–	3.36	25.54	0.39	0.515	-83.9	↓
747	↓	↓	6.84	0.792	–	1.48	25.52	0.39	0.515	-101.7	↓
	Sampled at 749										
753	252	16-20	7.30	0.837	–	1.30	25.43	0.41	0.546	-156.4	grey
755	↓	↓	7.28	0.841	–	0.46	25.50	0.41	0.548	-165.1	↓
757	↓	↓	7.28	0.844	–	0.38	25.56	0.41	0.550	-170.5	↓
	Sampled at 759										
802	252	21-25	6.53	0.819	–	3.43	25.98	2.20	0.535	-210.5	grey
804	↓	↓	7.30	0.825	–	0.72	26.17	0.60	0.538	-212.7	↓
806	↓	↓	7.36	0.829	–	0.42	26.29	0.40	0.540	-214.3	↓
	Sampled at 808										
812	252	26-30	7.18	0.917	–	0.97	26.23	0.45	0.601	-126.7	grey
814	↓	↓	7.12	0.930	–	0.40	26.33	0.46	0.607	-120.3	↓
816	↓	↓	7.06	0.934	–	0.31	26.40	0.46	0.606	-117.9	↓
	Sampled at 818										
825	252	31-35	7.50	0.911	–	2.35	26.92	0.45	0.597	-150.6	grey
827	↓	↓	7.19	0.920	–	0.54	27.03	0.45	0.597	-152.5	↓
829	↓	↓	7.17	0.914	–	0.45	27.09	0.45	0.592	-153.2	↓
	Sampled at 831										
838	252	36-40	7.33	0.865	–	0.31	26.95	0.42	0.565	-190.9	grey
840	↓	↓	7.34	0.871	–	0.22	26.98	0.43	0.566	-194.9	↓
842	↓	↓	7.33	0.869	–	0.20	26.96	0.42	0.562	-197.3	↓
	Sampled at 844										
851	252	41-45	7.45	1.204	–	1.88	27.08	0.60	0.793	-193.2	grey
853	↓	↓	7.43	1.225	–	0.55	27.10	0.61	0.803	-206.1	↓
855	↓	↓	7.43	1.241	–	0.28	27.11	0.62	0.809	-213.4	↓
	Sampled at 857										
906	252	56-60	7.44	3.527	–	2.42	27.68	1.85	2.306	-184.2	grey
908	↓	↓	7.42	3.582	–	0.34	27.72	0.30	2.394	-199.6	↓
910	↓	↓	7.43	3.721	–	0.20	27.76	0.18	2.459	-207.2	↓
	Sampled at 912										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/3/13

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0229	8-12			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		16-20			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		21-25			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		26-30			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		31-35			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		36-40			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		41-45			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
1148	0229	46-50	7.86	2.101	—	5.73	30.07	1.08	1.386	-76.6	grey
1150	↓	↓	7.36	2.108	—	2.32	29.08	1.07	1.386	-127.6	↓
1152	↓	↓	7.30	2.186	—	1.62	28.63	1.13	1.453	-139.5	↓
	Sampled at 1153										
		56-60			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										

Notes:

DPT = Direct Push Technology

BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

other depth intervals previously sampled. only 46-50' interval Sampled on 6/3/13

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/3/13

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0236	8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1213	0236	46-50	7.16	1.021	–	4.17	33.72	0.95	1.240	-106.0	grey
1215	↓	↓	7.09	1.901	–	1.66	32.91	0.94	1.224	-129.5	↓
1217	↓	↓	7.10	1.873	–	0.83	32.78	0.93	1.214	-144.3	↓
	Sampled at 1218										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

BLS = feet below land surface

µS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

Only 46-50' interval sampled on 6/3/13. other depth intervals previously sampled.

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/3/13 DJ

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0900	0253	~~8-12~~	7.32	2.098	–	5.23	29.15	1.07	1.375	-59.5	grey
0902	↓	↓	7.19	2.134	–	1.92	28.76	1.09	1.395	-82.1	↓
0904	↓	↓	7.16	2.151	–	1.46	28.49	1.09	1.401	-92.4	↓
	Sampled at 0905										
~~0912~~	~~0253~~	~~16-20~~			–						②
* ~~0914~~	↓	↓			–						③
—	↓	↓			–						④
	Sampled at										
0912	0253	21-25	7.25	1.962	–	4.80	28.35	1.00	1.285	-56.4	grey
0914	↓	↓	7.09	1.983	–	1.39	27.79	1.00	1.290	-75.9	↓
0916	↓	↓	7.05	1.986	–	0.65	27.33	1.01	1.292	-86.2	↓
	Sampled at 0917										
0924	0253	26-30	7.06	1.921	–	3.23	28.32	0.97	1.256	-34.7	grey
0926	↓	↓	6.94	1.943	–	0.94	27.64	0.99	1.272	-58.6	↓
0928	↓	↓	6.95	1.961	–	0.58	27.36	0.99	1.278	-69.4	↓
	Sampled at 0929										
0935	0253	31-35	7.84	0.889	–	4.05	29.39	0.82	1.070	-64.0	grey
0937	↓	↓	7.10	1.646	–	1.07	28.98	0.82	1.071	-111.5	↓
0939	↓	↓	7.06	1.650	–	0.55	28.74	0.83	1.076	-129.8	↓
	Sampled at 0940										
0949	0253	36-40	7.72	0.982	–	3.94	30.56	0.95	1.227	-23.5	grey
0951	↓	↓	7.12	1.898	–	1.35	30.37	0.96	1.239	-59.5	↓
0953	↓	↓	7.08	1.908	–	0.57	30.29	0.96	1.241	-77.6	↓
	Sampled at 0954										
1006	0253	41-45	7.45	1.127	–	4.14	31.01	0.55	1.373	-65.6	grey
1008	↓	↓	7.23	2.150	–	2.97	31.09	1.09	~~1.413~~	-117.1	↓
1010	↓	↓	7.17	2.189	–	0.60	30.94	1.11	1.432	-132.9	↓
	Sampled at 1011										
1024	0253	46-50	7.56	1.172	–	4.44	30.75	1.12	1.448	-65.7	grey
1026	↓	↓	7.29	2.259	–	1.36	30.37	1.16	1.488	-103.8	↓
1028	↓	↓	7.24	2.306	–	0.58	30.24	1.18	1.507	-119.8	↓
	Sampled at 1029										
1042	0253	56-60	7.66	1.744	–	4.09	30.79	1.42	1.998	-64.7	grey
1044	↓	↓	7.48	3.407	–	1.14	30.43	1.84	2.331	-110.4	↓
1046	↓	↓	7.47	3.655	–	0.54	30.17	1.93	2.404	-129.8	↓
	Sampled at 1047										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

* No 8-12' Sample collected per Jill Johnson

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/3/13 — Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1313	BT 0254	8-12	7.41	0.792	–	3.65	31.72	0.38	0.502	-24.4	dk brown ~~gray~~
1315	↓	↓	7.09	0.757	–	1.69	30.58	0.36	0.480	-34.9	↓
1317	↓	↓	6.96	0.725	–	1.27	29.75	0.34	0.462	-37.6	↓
	Sampled at 1318										
1350	0254	16-20	7.90	1.580	–	4.35	31.50	0.79	1.030	-44.9	dk brown
1352	↓	↓	7.46	1.593	–	1.38	31.24	0.80	1.043	-70.0	↓
1354	↓	↓	7.34	1.608	–	0.58	30.67	0.80	1.046	-83.7	↓
	Sampled at 1355										
1401	0254	21-25	7.57	1.058	–	4.11	31.62	1.02	1.317	-11.8	brown
1403	↓	↓	7.05	2.043	–	1.91	32.00	1.04	1.350	-39.7	↓
1405	↓	↓	6.96	2.093	–	0.61	31.47	1.07	1.379	-61.8	↓
	Sampled at 1406										
1412	0254	26-30	7.59	0.997	–	4.41	31.10	0.92	1.188	-6.5	brown
1414	↓	↓	7.07	1.805	–	1.58	30.91	0.88	1.139	-32.7	↓
1416	↓	↓	6.93	1.734	–	0.59	29.83	0.86	1.111	-42.5	↓
	Sampled at 1417										
1424	0254	31-35	7.80	0.784	–	3.38	32.00	0.72	0.941	-46.4	brown
1426	↓	↓	6.91	1.440	–	1.56	32.47	0.71	0.932	-62.5	↓
1428	↓	↓	6.76	1.431	–	0.49	32.24	0.71	0.930	-87.5	↓
	Sampled at 1429										
1439	0254	36-40	7.82	0.893	–	3.79	32.29	0.84	1.104	-72.8	brown
1441	↓	↓	7.19	1.714	–	2.70	32.65	0.86	1.131	-91.0	↓
1443	↓	↓	7.04	1.748	–	0.68	32.42	0.87	1.138	-109.0	↓
	Sampled at 1444										
1454	0254	41-45	7.66	1.180	–	3.78	31.43	1.11	1.424	-78.8	brown
1456	↓	↓	7.20	2.219	–	1.58	31.89	1.13	1.464	-104.8	↓
1458	↓	↓	7.10	2.272	–	0.51	31.66	1.16	1.489	-116.9	↓
	Sampled at 1459										
1509	0254	46-50	7.58	0.995	–	4.51	31.89	0.99	1.282	-63.1	brown
1511	↓	↓	7.21	2.028	–	1.08	31.65	1.03	1.339	-111.0	↓
1513	↓	↓	7.14	2.095	–	0.45	31.51	1.06	1.363	-129.9	↓
	Sampled at 1514										
	0254	56-60			–						
1529	↓	↓	7.44	3.363	–	0.92	31.25	1.81	2.277	-61.9	brown
1531	↓	↓	7.33	3.582	–	0.42	30.65	1.91	2.392	-85.5	↓
1533	Sampled at 1534		7.29	3.729		0.39	30.03	1.97	2.455	-93.0	↓

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/3/13 - 6/4/13 CD

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0255	8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1604	0255	16-20	7.94	1.309	–	12.72	32.03	0.63	0.831	-53.8	grey
1606	↓	↓	7.08	1.257	–	12.30	30.92	0.61	0.801	-68.5	↓
1608	↓	↓	6.98	1.225	–	10.84	30.04	0.60	0.791	-69.2	↓
	Sampled at 1609										
1614	0255	21-25	7.40	0.800	–	4.07	31.25	0.75	0.981	-42.2	grey
1616	↓	↓	7.02	1.515	–	1.97	31.61	0.75	0.990	-60.0	↓
1618	↓	↓	6.96	1.527	–	0.66	31.23	0.76	0.991	-67.5	↓
	Sampled at 1619										
1624	0255	26-30	7.51	1.744	–	3.75	31.43	0.86	1.119	-37.3	grey
1626	↓	↓	6.87	1.727	–	1.03	30.78	0.86	1.125	-52.4	↓
1628	↓	↓	6.79	1.736	–	0.47	30.02	0.87	1.132	-63.1	↓
	Sampled at 1629										
1650	0255	31-35	7.59	0.962	–	4.12	29.79	0.92	1.185	-53.9	grey
1652	↓	↓	6.86	1.825	–	1.88	30.42	0.92	1.196	-65.4	↓
1654	↓	↓	6.72	1.849	–	0.62	30.30	0.93	1.209	-83.8	↓
	Sampled at 1655										
1704	0255	36-40	7.49	0.833	–	3.47	30.53	0.78	1.017	-53.7	grey
1706	↓	↓	7.03	1.562	–	2.22	31.15	0.78	1.020	-72.3	↓
1708	↓	↓	6.86	1.578	–	0.61	31.05	0.79	1.033	-88.7	↓
	Sampled at 1709										
1719	0255	41-45	7.54	0.856	–	3.94	30.04	0.81	1.060	-33.3	grey
1721	↓	↓	7.00	1.644	–	2.02	30.47	0.83	1.083	-82.0	↓
1723	↓	↓	6.86	1.677	–	0.58	30.01	0.84	1.096	-101.8	↓
	Sampled at 1724										
0728	0255	46-50	7.61	0.857	–	16.34	24.88	0.86	1.109	+19.8	grey
0730	↓	↓	7.40	1.733	–	12.80	25.35	0.89	1.144	234.0	↓
0732	↓	↓	7.32	1.777	–	12.05	25.48	0.91	1.173	233.1	↓
	Sampled at 0733										
0746	0255	56-60	7.57	1.619	–	4.44	25.60	1.69	2.125	-19.2	grey
0748	↓	↓	7.32	3.333	–	1.76	25.67	1.78	2.230	-77.2	↓
0750	↓	↓	7.25	3.520	–	0.84	25.65	1.89	2.355	-90.4	↓
	Sampled at 0751										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

8-12' interval not sampled per Jill Johnson

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/4/13 Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	CH	8-12			–						
	↓	↓									
	↓	↓									
	Sampled at										
0836	0256	16-20	6.73	0.800	–	8.25	27.42	0.38	0.508	-4.2	grey
0838	↓	↓	6.82	0.772	–	4.30	27.48	0.37	0.497	-26.7	↓
0840	↓	↓	6.91	0.757	–	2.59	27.46	0.37	0.488	-39.6	↓
	Sampled at 0841										
0851	0256	21-25	7.63	0.832	–	7.29	27.41	0.41	0.546	-56.8	brown
0853	↓	↓	7.20	0.846	–	1.92	27.50	0.41	0.552	-79.5	↓
0855	↓	↓	7.10	0.851	–	0.90	27.51	0.41	0.553	-85.5	↓
	Sampled at 0856										
0902	0256	26-30	7.53	0.967	–	7.84	27.10	0.48	0.642	-26.6	grey
0904	↓	↓	7.32	0.987	–	2.15	27.26	0.49	0.644	-90.6	↓
0906	↓	↓	7.15	0.994	–	0.90	27.13	0.49	0.647	-95.8	↓
	Sampled at 0907										
0916	0256	31-35	7.68	0.505	–	7.28	28.06	0.46	0.620	-69.8	grey
0918	↓	↓	7.37	0.968	–	4.28	28.44	0.48	0.638	-110.7	↓
0920	↓	↓	7.27	0.985	–	1.07	28.36	0.48	0.644	-121.6	↓
	Sampled at 0921										
0931	0256	36-40	7.76	0.557	–	7.41	27.88	0.51	0.610	-76.1	grey
0933	↓	↓	7.31	1012	–	2.31	28.16	0.49	0.653	-107.6	↓
0935	↓	↓	7.16	1.000	–	0.81	28.19	0.49	0.649	-118.1	↓
	Sampled at 0936										
0947	0256	41-45	7.72	1.014	–	6.80	28.50	0.49	0.656	-62.0	grey
0949	↓	↓	7.33	1.000	–	1.77	28.60	0.49	0.644	-94.9	↓
0951	↓	↓	7.17	0.989	–	0.76	28.65	0.48	0.645	-100.2	↓
	Sampled at 0952										
1034	0256	46-50	7.84	0.582	–	7.51	29.03	0.28	0.688	-59.1	grey
1036	↓	↓	7.53	1.115	–	6.84	29.24	0.55	0.732	-114.8	↓
1038	↓	↓	7.38	1.135	–	1.66	29.34	0.56	0.741	-125.5	↓
	Sampled at 1039										
1055	0256	56-60	7.67	1.600	–	7.46	29.68	1.60	2.028	-38.9	grey
1057	↓	↓	7.38	3.191	–	2.09	29.60	1.67	2.106	-107.7	↓
1059	↓	↓	7.31	3.279	–	0.76	29.40	1.74	2.193	-122.4	↓
	Sampled at 1100										

Notes:

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TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

No 8-12' Sample collected

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6/4/13 CE

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0257	8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1123	0257	16-20	7.82	0.639	–	19.22	31.16	0.59	0.778	-55.5	grey
1125	↓	↓	7.21	1.193	–	17.15	31.17	0.58	0.772	-75.6	↓
1127	↓	↓	7.01	1.182	–	16.66	30.96	0.58	0.765	-78.8	↓
	Sampled at 1128										
1134	0257	21-25	7.53	1.529	–	6.36	30.74	0.77	1.014	-63.4	grey
1136	↓	↓	7.03	1.575	–	1.54	30.49	0.79	1.030	-71.2	↓
1138	↓	↓	6.91	1.589	–	0.73	30.06	0.79	1.033	-72.4	↓
	Sampled at 1139										
1146	0257	26-30	7.72	1.498	–	6.97	31.21	0.94	1.226	-31.7	grey
1148	↓	↓	7.10	1.915	–	1.92	30.71	0.98	1.266	-61.7	↓
1150	↓	↓	6.95	1.965	–	0.81	30.01	1.00	1.287	-64.8	↓
	Sampled at 1151					8.42					
1158	0257	31-35	7.14	0.838	–	~~@0.42~~	31.67	0.41	0.557	-60.7	grey
1200	↓	↓	7.19	1.582	–	@5.37	31.93	0.82	1.042	-92.5	↓
1202	↓	↓	7.08	1.608	–	1.37	31.88	0.81	1.054	-97.3	↓
	Sampled at 1203										
1212	0257	36-40	7.55	0.729	–	6.92	30.83	0.68	0.899	-47.8	grey
1214	↓	↓	7.06	1.389	–	1.99	30.96	0.69	0.905	-75.9	↓
1216	↓	↓	6.88	1.394	–	0.77	30.97	0.69	0.906	-85.1	↓
	Sampled at 1217										
1301	0257	41-45	7.88	1.435	–	20.69	32.39	0.74	0.975	-87.8	grey
1303	↓	↓	7.24	1.520	–	18.93	32.10	0.77	1.008	-100.2	↓
1305	↓	↓	7.14	1.569	–	11.61	31.56	0.78	1.028	-103.4	↓
	Sampled at 1306										
1322	0257	46-50	7.49	0.917	–	7.94	31.27	0.45	1.060	-72.1	
1324	↓	↓	7.17	1.810	–	7.04	31.78	0.92	1.195	-87.9	
1326	↓	↓	6.95	1.859	–	2.63	31.87	0.94	1.222	-101.0	
	Sampled at 1327										
	0257	56-60			–						
	↓	↓			–						
	Sampled at										

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NTU = Nephelometric Turbidity Units

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

* No 8-12' interval Sample collected. No 56-60' sample collected.

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6-4-13 Crystal Tavns

Time	DF DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0258	8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1353	0258	31-35	6.82	1.176	–	19.12	25.00	0.58	0.762	-83.2	grey
1355	↓	↓	6.66	1.172	–	22.15	25.03	0.58	0.761	-90.0	↓
1357	↓	↓	6.70	1.171	–	23.09	25.06	0.58	0.761	-95.9	↓
	Sampled at 1358										
1524	0258	36-40	7.40	1.252	–	9.03	26.67	0.65	0.851	-65.0	grey
1526	↓	↓	6.83	1.317	–	3.17	26.73	0.66	0.862	-68.8	↓
1528	↓	↓	6.74	1.332	–	2.12	26.79	0.66	0.868	-68.9	↓
	Sampled at 1529										
1554	0258	41-45	7.39	0.762	–	8.75	27.49	0.74	0.966	-68.7	grey
1556	↓	↓	6.93	1.495	–	2.99	27.57	0.75	0.980	-117.6	↓
1558	↓	↓	6.85	1.514	–	1.75	27.58	0.76	0.988	-126.1	↓
	Sampled at 1559										
1609	0258	46-50	7.37	1.074	–	8.04	27.78	1.09	1.399	-22.0	grey
1611	↓	↓	7.11	2.177	–	3.24	27.93	1.12	1.438	-76.7	↓
1613	↓	↓	7.03	2.236	–	1.52	27.89	1.15	1.471	-84.9	↓
	Sampled at 1614										
1626	0258	56-60	7.37	1.817	–	7.41	27.21	1.49	1.999	42.0	grey
1628	↓	↓	7.04	3.454	–	2.11	27.28	1.88	2.370	-50.6	↓
1630	↓	↓	6.95	3.706	–	0.84	27.11	1.98	2.457	-60.3	↓
	Sampled at 1631										

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

*Note: First interval sampled = 31-35'

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6-4-13 / 6-5-13

Crystal Towns

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0259	8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1657	0259	31-35	7.59	1.353	–	22.19	27.89	0.66	1.323	-39.2	grey
1659	↓	↓	7.03	1.303	–	17.45	27.72	0.64	0.834	-65.9	↓
1701	↓	↓	6.87	1.271	–	16.20	27.37	0.62	0.816	-64.8	↓
	Sampled at 1702										
0711	0259	36-40	7.63	1.754	–	25.22	24.35	0.88	1.130	-87.1	grey
0713	↓	↓	7.24	1.726	–	20.08	24.44	0.87	1.113	-103.7	↓
0715	↓	↓	7.13	1.708	–	20.66	24.45	0.86	1.106	-106.6	↓
	Sampled at 0716										
0724	0259	41-45	7.55	2.182	–	8.00	24.35	1.12	1.432	2.3	grey
0726	↓	↓	7.31	2.270	–	3.85	24.65	1.17	1.490	-43.5	↓
0728	↓	↓	7.14	2.315	–	2.13	24.89	1.19	1.514	-53.7	↓
	Sampled at 0729							(5)			
0738	0259	46-50	7.42	1.309	–	7.98	0.62	24.88	1.574	22.1	grey
0740	↓	↓	7.22	2.411	–	5.24	25.06	1.23	1.563	-52.3	↓
0742	↓	↓	7.12	2.416	–	1.60	25.17	1.25	1.586	-64.6	↓
	Sampled at 0743										
0753	0259	56-60	7.51	2.998	–	7.22	25.04	1.86	2.311	153.1	grey
0755	↓	↓	7.30	3.617	–	2.76	25.17	1.94	2.404	30.5	↓
0759	↓	↓	7.16	3.746	–	1.57	25.20	1.99	2.465	-29.1	↓
	Sampled at 0758										

Notes:

DPT = Direct Push Technology

BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

* Began collecting samples at 31-35' interval.

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 25*2

Date: 6-5-13 (4 CT)

Crystal Towns

BV

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0260	8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0833	0260	16-20	7.54	1.304	–	7.51	27.01	0.64	0.840	-29.1	grey
0835	↓	↓	6.92	1.288	–	2.39	27.60	0.64	0.835	-62.2	↓
0837	↓	↓	6.78	1.280	–	1.25	27.73	0.63	0.828	-62.0	↓
	Sampled at 0838										
0843	0260	21-25	7.34	0.661	–	7.12	27.46	0.62	0.813	-28.7	grey
0845	↓	↓	7.01	1.243	–	2.62	27.66	0.61	0.804	-55.8	↓
0847	↓	↓	6.82	1.235	–	0.77	27.66	0.61	0.801	-58.2	↓
	Sampled at 0848										
0853	0260	26-30	7.48	0.668	–	5.48	21.73	0.32	0.433	+100.3	grey
0855	↓	↓	7.23	0.669	–	5.41	27.85	0.33	0.439	-17.0	↓
0857	↓	↓	7.13	0.678	–	5.44	27.84	0.33	0.442	-53.8	↓
	Sampled at 0858										
0955	0260	31-35	7.20	1.235	–	5.52	28.85	0.62	0.862	-60.1	grey
0957	↓	↓	7.09	1.300	–	2.08	28.95	0.65	0.860	-73.2	↓
0959	↓	↓	7.02	1.333	–	0.66	28.88	0.66	0.872	-78.8	↓
	Sampled at 1000					(2)					
1008	0260	36-40	7.53	1.822	–	~~4.70~~	29.54	0.93	1.205	-64.9	grey
1010	↓	↓	7.11	1.866	–	0.99	29.63	0.94	1.221	-89.0	↓
1012	↓	↓	7.03	1.882	–	0.44	29.68	0.95	1.226	-96.3	↓
	Sampled at 1013										
1024	0260	41-45	7.12	2.302	–	1.55	29.55	1.19	1.523	-75.5	grey
1026	↓	↓	7.04	2.361	–	0.43	29.48	1.21	1.548	-99.9	↓
1028	↓	↓	7.02	2.391	–	0.32	29.42	1.22	1.562	-106.2	↓
	Sampled at 1029										
		46-50			*						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1044	0260	56-60	(2) ~~5~~ 7.54	3.567	–	3.78	29.98	2.08	2.622	-1.3	grey
1046	↓	↓	7.34	4.196	–	0.62	28.60	2.29	2.858	-73.2	↓
1048	↓	↓	7.26	4.514	–	0.34	28.24	2.42	2.970	-81.7	↓
	Sampled at 1049										

Notes:

DPT = Direct Push Technology

BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

* 8-12' and 46-50' intervals not Sampled.

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/28/14 DPT0268 (S)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0856	0268	31-35	6.83	1.560	–	0.31	28.01	0.074	0.962	-117.1	cloudy
0858	↓	↓	6.79	1.539	–	0.20	27.40	0.074	0.960	-116.0	↓
0900	↓	↓	6.79	1.532	–	0.17	27.27	0.073	0.955	-116.9	↓
	Sampled at 0901										
0916	0268	36-40	7.02	1.664	–	0.31	30.03	0.075	0.984	-149.8	cloudy gray
0918	↓	↓	7.06	1.642	–	0.06	30.46	0.074	0.969	-168.9	↓
0920	↓	↓	7.05	1.655	–	0.07	30.04	0.075	0.982	-171.9	↓
	Sampled at 0921										
0934	0268	41-45	7.04 (2)	1.680	–	0.05	29.44	0.077	1.005	-248.6	cloudy tan
0936	↓	↓	7.06	1.684	–	0.06	29.10	0.078	1.016	-220.8	↓
0938	↓	↓	7.06	1.667	–	0.07	28.71	0.078	1.019	-203.4	↓
	Sampled at 0939										
0951	0268	46-50	7.13	1.792	–	0.07	29.29	0.083	1.074	-219.7	~~cloudy tan~~ (S) milky
0953	↓	↓	7.15	1787	–	0.05	29.36	0.082	1.061	-289.9	↓
0955 (2)	↓	↓	7.18	1.762	–	0.04	29.34	0.081	1.049	-340.4	↓
	Sampled at 0956										
1012	0268	56-60	7.23	3.517	–	0.01	28.93	0.164	2.097	-600.4	cloudy tan
1014	↓	↓	7.23	3.609	–	0.01	28.83	0.175	2.192	-603.4	↓
1016	↓	↓	7.23	3.595	–	0.03	28.47	0.175	2.192	-604.0	↓
	Sampled at 1017										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

tes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: CRHE Project #: FR1681 Field Personnel: Christel Schultz

Water Quality Meter - Model/Serial #: YSI 556 MPS #13D101776 Turbidimeter - Model/Serial #:

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		05/28/14	07:21	24.9	8.279	8.82/8.27	107.4/100.4	P F
CAL ICV CCV		05/28/14	18:08	29.1	7.678	7.84	102.1	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL ICV CCV		05/28/14	07:16	1.413	10601	09/20/14	1.411/1.413	P F
CAL ICV CCV		05/28/14	18:01	1.413	10601	09/20/14	1.391	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV CCV		05/28/14	06:59	7.00	2312885	12/15	7.11/7.00	P F
CAL ICV CCV		05/28/14	07:03	4.00	2310A78	10/15	4.05/4.00	P F
CAL ICV CCV		05/28/14	07:14	10.00	2312574	05/15	9.92/10.00	P F
CAL ICV CCV		05/28/14	17:55	7.00	2312885	12/15	6.94	P F
CAL ICV CCV		05/28/14	17:57	4.00	2310A78	10/15	4.08	P F
CAL ICV CCV		05/28/14	17:59	10.00	2312574	05/15	9.97	P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		05/28/14	07:19	240.0	6448	07/16	234.7/240.0	P F
CAL ICV CCV		05/28/14	18:04	240.0	6448	07/16	232.8	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std ___NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form
CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification
Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings always start with pH 7 add a third calibration point if needed (i.e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/13/14 CN/ DPT0313

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1609	0313	31-35	7.14	1.734	–	1.25	26.41	.087	1.125	-162.2	cloudy grey
1611	↓	↓	7.17	1.757	–	0.52	26.28	.089	1.143	-201.0	cloudy
1613	↓	↓	7.16	1.769	–	0.37	26.22	.089	1.151	-204.1	"
	Sampled at 1614										
1626	0313	36-40	7.27	1.731	–	0.96	27.07	.087	1.128	-202.3	cloudy grey
1628	↓	↓	7.25	1.762	–	0.28	27.10	.089	1.149	-210.6	"
1630	↓	↓	7.22	1.785	–	0.15	26.91	.090	1.162	-206.3	cloudy/grey
	Sampled at 1631										
1643	0313	41-45	7.21	1.924	–	0.25	27.17	.098	1.258	-201.6	cloudy grey
1645	↓	↓	7.18	1.961	–	0.08	26.64	.099	1.275	-196.1	cloudy
1647	↓	↓	7.17	1.962	–	0.07	26.52	.099	1.276	-192.6	cloudy
	Sampled at 1648										
1700	0313	46-50	7.28	1.969	–	0.63	28.16	.099	1.275	-218.8	cloudy grey
1702	↓	↓	7.28	1.930	–	0.10	28.10	.097	1.244	-224.8	"
1704	↓	↓	7.31	1.874	–	0.06	27.99	.094	1.216	-230.3	" "
	Sampled at 1705										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/13/14 CM / DPT0312

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0806	0312	31-35	7.21	1.468	–	0.30	25.84	.073	0.956	-165.0	cloudy grey
0808	↓	↓	7.19	1.477	–	0.26	25.67	.074	0.961	-164.1	cloudy
0810	↓	↓	7.16	1.477	–	0.22	25.46	.074	0.960	-158.7	" "
	Sampled at 0811										
0823	0312	36-40	7.27	1.500	–	0.28	25.58	.076	0.982	-204.4	cloudy grey
0825	↓	↓	7.28	1.538	–	0.17	25.66	.077	1.002	-198.2	cloudy
0827	↓	↓	7.21	1.540	–	0.15	25.29	.077	1.001	-184.7	" "
	Sampled at 0828										
0843	0312	41-45	7.31	1.675	–	0.31	25.23	.085	1.103	-207.2	cloudy grey
0845	↓	↓	7.38	1.724	–	0.14	25.30	.087	1.125	-218.8	" "
0847	↓	↓	7.38	1.749	–	0.12	25.33	.088	1.139	-223.2	
	Sampled at 0848										
0906	0312	46-50	7.41	1.768	–	0.23	25.35	.089	1.153	-230.5	cloudy grey
0908	↓	↓	7.50	1.814	–	0.14	25.30	.092	1.182	-234.1	" "
0910	↓	↓	7.46	1.810	–	0.13	25.39	.092	1.183	-238.9	" "
	Sampled at 0911										
0926	0312	56-60	7.30	3.671	–	0.13	25.12	.195	2.410	-202.2	cloudy grey
0928	↓	↓	7.31	3.845	–	0.10	24.96	.204	2.528	-207.2	" "
0930	↓	↓	7.28	3.960	–	0.09	24.75	.210	2.585	-202.9	cloudy
	Sampled at 0931										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

s

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/12/14 & 06/13/14 CL / DPT ~~08~~ 0311 Mike Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1356	0311	31-35	7.07	2.174	–	0.27	30.15	.094	1.282	-159.3	cloudy grey
1358	↓	↓	6.98	2.094	–	0.25	28.21	.094	1.277	-143.5	cloudy
1400	↓	↓	6.94	2.043	–	0.25	27.61	.098	1.261	-133.2	cloudy
	Sampled at 1401										
1420	0311	36-40	7.14	2.244	–	0.21	31.63	.100	1.292	-140.6	cloudy grey
1422	↓	↓	7.15	2.208	–	0.16	31.14	.098	1.273	-200.0	" "
M24	↓	↓	7.15	2.132	–	0.16	30.81	.102	1.318	-202.6	" "
	Sampled at 1425										
1444	0311	41-45	7.17	2.685	–	0.15	33.24	.117	1.503	-194.8	cloudy grey
1446	↓	↓	7.19	2.677	–	0.11	31.97	.120	1.536	-194.7	cloudy
1448	↓	↓	7.20	2.661	–	0.11	31.50	.120	1.538	-184.4	" "
	Sampled at 1449										
06/13/14 0706	0311	46-50	6.84	2.549	–	0.47	22.82	.132	1.658	-98.9	cloudy
0708	↓	↓	6.86	2.557	–	0.40	22.84	.132	1.662	-104.6	" "
0710	↓	↓	6.87	2.559	–	0.37	22.85	.132	1.664	-106.6	" "
	Sampled at 0711										
0727	0311	56-60	7.32	~~2.470~~ mS	–	0.21	23.55	.206	2.557	-189.0	cloudy grey
0729	↓	↓	7.31	3.993	–	0.18	23.63	.212	2.600	-182.0	cloudy
0731	↓	↓	7.27	4.005	–	0.16	23.61	.212	2.604	-174.3	cloudy
	Sampled at 0732										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

es.

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/12/14 BX/DPT0310 Mike Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at								1.570		
1103	0310	31-35	7.12	2.633	–	0.25	29.57	.123	~~458.0~~	-158.0	cloudy grey
1105	↓	↓	7.14	2.600	–	0.22	28.20	.125	1.596	-166.0	cloudy grey
1107	↓	↓	7.12	2.586	–	0.20	27.61	.126	1.598	-161.5	cloudy
	Sampled at 1108										
1121	0310	36-40	7.20	2.738	–	0.25	27.54	.135	1.718	-165.1	cloudy grey
1123	↓	↓	7.10	2.773	–	0.24	26.58	.138	1.747	-144.0	cloudy
1125	↓	↓	7.04	2.746	–	0.26	26.16	.138	1.744	-136.8	cloudy
	Sampled at ~~0310~~ 1126										
1141	0310	41-45	7.22	2.889	–	0.21	30.71	.134	1.715	-183.3	cloudy grey
1143	↓	↓	7.27	3.002	–	0.16	30.42	.140	1.777	-191.1	cloudy
1145	↓	↓	7.23	3.017	–	0.17	28.48	.146	1.842	-182.0	cloudy
	Sampled at 1146										
1201	0310	46-50	7.34	3.361	–	0.28	31.17	.154	1.944	-171.9	cloudy grey
1203	↓	↓	7.33	3.314	–	0.23	31.45	.152	1.917	-184.2	" "
1205	↓	↓	7.32	3.293	–	0.17	31.06	.152	1.918	-188.1	" "
	Sampled at 1206										
1220	0310	56-60	7.38	4.390	–	0.20	29.25	.213	2.651	-189.8	cloudy grey
1222	↓	↓	7.37	4.384	–	0.18	27.52	.221	2.723	-185.4	cloudy
1224	↓	↓	7.32	4.355	–	0.22	26.78	.222	2.734	-172.6	cloudy
	Sampled at 1225										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/12/14 BW / DPT0309 Mike Bentley

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0840	0309	31-35	6.83	2.178	–	0.24	26.12	.109	1.391	-144.6	cloudy grey
0842	↓	↓	6.99	2.221	–	0.18	25.93	.111	1.420	-168.0	cloudy
0844	↓	↓	7.00	2.218	–	0.17	25.67	.112	1.422	-164.7	cloudy
	Sampled at 0845										
0857	0309	36-40	7.25	2.524	–	0.34	26.32	.128	1.624	-161.3	cloudy grey
0859	↓	↓	7.19	2.633	–	0.22	26.44	.132	1.665	-167.0	cloudy
0901	↓	↓	7.16	2.631	–	0.24	26.33	.132	1.668	-167.9	cloudy
	Sampled at 0902										
0913	0309	41-45	7.24	2.794	–	0.43	26.32	.139 ~~.727~~ mS	1.727	-163.5	cloudy grey
0915	↓	↓	7.22	2.819	–	0.27	26.20	.143	1.799	-165.5	cloudy
0917	↓	↓	7.18	2.834	–	0.23	25.92	.144	1.810	-158.5	cloudy
	Sampled at 0918										
1007	0309	46-50	7.43	2.831	–	0.22	27.38	.139	1.759	-211.5	grey
1009			Insufficient Volume. Only enough to collect 1 reading.								
1011	↓	↓									
	Sampled at 1012										
1026	0309	56-60	7.38	4.294	–	0.23	28.21	.214	2.641	-184.8	grey
1028	↓	↓	7.39	4.334	–	0.20	27.63	.218	2.687	-191.4	cloudy
1030	↓	↓	7.38	4.345	–	0.20	27.35	.220	2.706	-191.5	cloudy
	Sampled at 1031										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/11/14 AM / DPT 0308 Miller Brecher

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1509	0308	26-30	7.32	1.013	–	0.22	24.84	.050	0.660	-145.5	grey
1511	↓	↓	7.28	1.016	–	0.24	24.92	.050	0.662	-154.8	grey
1513	↓	↓	7.28	1.015	–	0.26	24.90	0.050	0.661	-160.4	MB / cloudy grey
1513	Sampled at 1514										
1523	0308	31-35	7.35	0.983	–	0.25	25.19	.048	0.636	-130.7	cloudy grey
1525	↓	↓	7.26	0.999	–	0.22	25.20	.049	0.649	-144.0	cloudy grey
1527	↓	↓	7.26	1.009	–	0.21	25.09	.050	0.655	-147.4	cloudy grey
	Sampled at 1528										
1540	0308	36-40	7.32	1.049	–	0.25	25.80	0.51	0.676	-162.3	cloudy grey
1542	↓	↓	7.33	1.063	–	0.22	25.64	0.52	0.683	-160.7	" "
1544	↓	↓	7.33	1.065	–	0.21	25.62	.052	.684	-160.3	" "
	Sampled at 1545										
1732	0308	41-45	7.53	1.268	–	0.33	23.83	.066	0.867	-126.7	cloudy grey
1734	↓	↓	7.35	1.326	–	0.21	24.05	.067	0.878	-142.3	cloudy
1736	↓	↓	7.32	1.312	–	0.19	23.93	.067	0.871	-143.9	cloudy
	Sampled at 1737										
1744	0308	46-50	7.40	1.635	–	0.31	24.18	.084	1.081	-152.8	cloudy grey
1746	↓	↓	7.37	1.637	–	0.19	24.25	.084	1.080	-167.0	" "
1753	↓	↓	7.37	2.664	–	0.17	24.20	.086	1.101	-173.0	cloudy grey
	Sampled at 1754										
1804	0308	56-60	7.40	3.281	–	0.28	24.34	.173	2.153	-180.7	cloudy grey
1811	↓	↓	7.45	3.216	–	0.18	24.27	.163	2.001	-198.6	cloudy grey
1813	↓	↓	7.50	3.174	–	0.16	24.23	.168	2.094	-205.2	
	Sampled at 1814										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/11/14 AL / DPT0307 Mike Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0917	0307	26-30	7.14	1.248	–	0.40	30.58	.055	0.797	-133.8	cloudy grey
0919	↓	↓	7.15	1.200	–	0.25	29.30	.054	0.716	-141.2	cloudy
0921	↓	↓	7.16	1.170	–	0.26	28.81	.054	0.708	-134.5	cloudy
	Sampled at 0922										
0932	0307	31-35	7.32	1.170	–	0.23	28.84	.054	0.716	-135.4	cloudy grey
0934	↓	↓	7.26	1.205	–	0.16	28.21	.050	0.741	-145.7	" "
0936	↓	↓	7.25	1.225	–	0.17	27.79	.058	0.758	-145.6	" "
	Sampled at 0937										
0950	0307	36-40	7.29	1.600	–	0.18	30.05	.073	1.608	-148.1	cloudy grey
0952	↓	↓	7.30	1.587	–	0.12	28.85	.074	1.583	-150.0	cloudy
0954	↓	↓	7.29	1.584	–	0.11	28.12	.074	1.583	-148.0	cloudy
	Sampled at 0955										
1007	0307	41-45	7.29	1.916	–	0.16	29.74	.089	1.155	-157.1	milky brown
1009	↓	↓	7.28	1.989	–	0.10	28.78	.094	1.212	-167.3	cloudy
1011	↓	↓	7.28	2.015	–	0.09	27.86	.097	1.246	-166.3	cloudy
	Sampled at 1012										
1027	0307	46-50	7.32	2.090	–	0.21	30.42	.095	1.225	-121.6	milky grey
1029	↓	↓	7.32	2.098	–	0.12	30.30	.096	1.234	-184.6	" "
1031	↓	↓	7.33	2.122	–	0.10	30.03	.098	1.260	-190.2	" "
	Sampled at 1032										
1125	0307	56-60	7.33	4.037	–	0.12	30.56	.195	2.436	-173.5	milky grey
1127	↓	↓	7.38	4.220	–	0.09	27.64	.212	2.620	-177.1	cloudy
1129	↓	↓	7.36	4.229	–	0.09	26.83	.215	2.646	-167.3	cloudy
	Sampled at 1130										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

s

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/11/14 AK/DPT0306 Mike Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0814	0306	31-35	6.97	1.153	–	0.18	23.62	.059	0.769	-141.9	cloudy
0816	↓	↓	7.07	1.148	–	0.17	23.31	.059	0.770	-135.7	cloudy
0818	↓	↓	7.07	1.143	–	0.16	23.29	.059	0.767	-132.2	cloudy
	Sampled at 0819										
0832	0306	36-40	7.49	1.263	–	0.18	24.86	.063	0.828	-184.5	Cloudy grey
0834	↓	↓	mB Insufficient		Volume. Sample collected after 1 measurement						
0836	↓	↓									
	Sampled at 0837										
0848	0306	41-45	7.36	1.754	–	0.15	25.80	.088	1.136	-178.5	grey
0850	↓	↓	7.37	1.812	–	0.13	25.74	.091	1.162	-188.4	grey
0852	↓	↓	7.36	1.838	–	0.11	25.72	.092	1.181	-193.9	grey
	Sampled at 0853										
		46-50			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/10/14 AJ/DPT0305 M.Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1705	0305	36-40	7.32	1.331	–	0.23	30.00	.060	0.788	-164.2	milky grey
1707	↓	↓	7.29	1.318	–	0.15	29.00	.060	0.741	-183.8	" "
1709	↓	↓	7.32	1.293	–	0.08	27.64	.060	0.805	-192.3	cloudy
	Sampled at 1710										
1721	0305	41-45	7.36	1.788	–	0.11	28.83	.084	1.087	-141.3	grey
1723	↓	↓	7.31	1.745	–	0.08	27.66	.084	1.086	-159.4	grey
1725	↓	↓	7.30	1.763	–	0.07	27.52	.085	1.102	-160.2	grey
	Sampled at 1726										
		46-50			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es:

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/10/14 AG / DPT 0304 Mike Burton

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1433	0304	31-35	7.36	1.210	–	0.10	32.94	.057	0.682	-260.8	milky brown
1435	↓	↓	Insufficient volume		–	Collected samples after 1 reading					
1437	↓	↓			–						
	Sampled at 1438										
1452	0304	36-40	7.37	1.477	–	0.10	33.32	.064	0.854	-189.4	cloudy grey
1454	↓	↓	7.30	1.596	–	0.04	30.00	.073 .0454	0.964	-206.6	grey
1456	↓	↓	7.30	1.621	–	0.09	28.43	mB 0.76	0.992	-205.4	grey
	Sampled at 1457										
1511	0304	41-45	7.26	1.922	–	0.12	31.81	.085	1.114	-173.1	milky grey
1513	↓	↓	7.27	1.980	–	0.04	29.27	.092	1.195	-182.9	cloudy
1515	↓	↓	7.26	2.000	–	0.08	28.37	.095	1.224	-181.1	cloudy
	Sampled at 1516										
1531	0304	46-50	7.38	2.034	–	0.04	30.62	.094	1.215	-200.4	milky gray
1533	↓	↓	7.38	2.117	–	0.05	29.93	.098	1.268	-209.2	" "
1535	↓	↓	7.38	2.201	–	0.07	28.83	.105	1.357	-210.0	" "
	Sampled at 1536										
1552	0304	56-60	7.33	3.540	–	0.10	29.86	.173	2.222	-163.3	milky brown
1554	↓	↓	7.36	3.773	–	0.08	27.22	.190	2.362	-176.9	cloudy
1556	↓	↓	7.35	3.778	–	0.07	26.50	.193	2.388	-175.0	cloudy
	Sampled at 1557										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/10/14 AF/DPT 303 Mike Burnham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1310	0303	36-40	7.28	1.760	–	.18	29.24	.081	1.060	-169.3	grey
1312	↓	↓	7.20	1.697	–	0.12	27.01	.082	1.058	-159.1	cloudy
1314	↓	↓	7.18	1.667	–	0.10	26.62	.081	1.049	-155.1	cloudy
	Sampled at 1315										
1331	0303	41-45	7.21	2.200	–	0.11	31.72	.099	1.279	-172.8	milky grey
1333	↓	↓	7.22	2.217	–	0.09	30.10	.102	1.316	-177.1	~~cloudy~~ cloudy
1335	↓	↓	7.21	2.225	–	0.09	2952	.104	1.331	-171.5	cloudy
	Sampled at 1336										
1351	0303	46-50	7.34	2.307	–	0.06	32.08	.102	1.320	-234.1	chalky gray
1353	↓	↓	Insufficient volume. Collected samples after one reading.		–						
1355	↓	↓			–						
	Sampled at 1356										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/10/14 AD/DPT0302 Miki Burdhan

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0959	0302	41-45	7.22	2.431	–	0.13	28.92	.115	1.469	-64.4	grey; cloudy
1000	↓	↓	7.18	2.402	–	0.12	27.57	.117	1.488	-160.9	cloudy
1002	↓	↓	7.15	2.380	–	0.11	26.78	.117	1.494	-156.1	cloudy
	Sampled at 1003										
1150	0302	46-50	7.14	2.875	–	0.15	30.13	.128	1.634	-169.4	cloudy grey
1152	↓	↓	7.14	2.806	–	0.12	30.90	.128	1.637	-169.2	↓
1154	↓	↓	7.15	2.775	–	0.10	30.39	.128	1634	-171.2	✓
	Sampled at 1155										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/10/2014 AE/DPT 0301 Mike Burnham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0815	0301	36-40	7.22	1.903	–	0.20	25.78	~~.215~~ .095	1.218	-161.3	~~no cloudy~~ grey cloudy
0817	↓	↓	7.18	1.892	–	0.17	25.30	.095	1.222	-159.6	cloudy
0819	↓	↓	7.15	1.882	–	0.15	25.06	.095	1.221	-156.1	cloudy
	Sampled at 0820										
0836	0301	41-45	7.25	2.228	–	0.16	26.62	.110	1.410	-181.6	grey, milky
0838	↓	↓	7.25	2.254	–	0.14	26.36	.112	1.431	-194.9	cloudy
0840	↓	↓	7.23	2.283	–	0.13	26.24	.114	1.456	-194.1	cloudy
	Sampled at 0841										
0859	0301	46-50	7.41	2.331	–	0.11	27.32	.114	1.455	-223.4	grey milky
0901	↓	↓	7.41	2.351	–	0.09	27.28	.115	1.468	-233.1	" "
0903	↓	↓	7.40	2.393	–	0.09	27.35	.117	1.486	-239.3	" "
	Sampled at 0904										
0921	0301	56-60	7.52	3.538	–	0.12	26.02	.186	2.315	-242.7	grey
0923	↓	↓	7.50	3.728	–	0.10	25.45	.195	2.410	-240.0	cloudy
0925	↓	↓	7.48	3.766	–	0.10	25.30	.197	2.437	-234.0	cloudy
	Sampled at 0926										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/09/14 & 6/10/14 AC/DPT0300 Mike Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1636	0300	36-40	7.23	2.564	–	0.25	30.85	.117	1.496	-188.4	grey
1638	↓	↓	7.27	2.556	–	0.16	30.20	.118	1.515	-202.6	grey
1640	↓	↓	7.26	2.560	–	0.14	29.59	.120	1.531	-202.9	cloudy
	Sampled at 1641										
1654	0300	41-45	7.38	2.248	–	0.28	29.94	104	1.346	-225.0	grey
1656	↓	↓	7.37	2.436	–	0.11	29.14	.116	1.493	-233.0	grey
1658	↓	↓	7.32	2.571	–	0.12	28.31	.124	1.582	-233.6	grey
	Sampled at 1659										
~~1713~~ 1713	0300	46-50	7.48	2.595	–	0.22	29.03	.123	1.572	-240.9	grey
1715	↓	↓	7.48	2.635	–	0.12	28.67	.127	1.611	-250.4	grey
1717	↓	↓	7.46	2.715	–	0.10	28.53	.131	1.661	-253.2	grey
	Sampled at 1718										
6/10/14 0733	0300	56-60	7.22	3.400	–	0.50	24.55	.183	2.240	-227.4	grey
0735	↓	↓	7.35	3.655	–	0.41	24.36	.195	2.417	-240.3	cloudy/grey
0737	↓	↓	7.36	3.712	–	0.34	24.16	.199	2.458	-237.3	cloudy
	Sampled at 0738										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/9/14 AB / DPT0299 Mike Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1436	0299	31-35	7.17	2.380	–	0.26	~~30.08~~ 30.46	.108	1.393	-180.4	grey
1438	↓	↓	7.15	2.328	–	0.21	28.86	.110	1.407	-183.5	cloudy
1440	↓	↓	7.12	2.292	–	0.20	28.07	.110	1.407	-181.9	cloudy
	Sampled at 1441										
1454	0299	36-40	7.22	2.533	–	0.39	31.11	.115	1.472	-179.8	grey
1456	↓	↓	7.19	2.483	–	0.21	29.69	.116	1.480	-179.9	cloudy
1458	↓	↓	7.16	2.459	–	0.20	29.04	.116	1.483	-176.3	cloudy
	Sampled at 1459										
1512	0299	41-45	7.28	2.588	–	0.25	31.66	.118	1.515	-201.8	grey
1514	↓	↓	7.25	2.721	–	0.17	29.63	.128	1.639	-204.5	cloudy
1516	↓	↓	7.21	2.749	–	0.17	28.59	.132	1.673	-196.3	cloudy
	Sampled at 1517										
1605	0299	46-50	7.40	2.819	–	0.23	31.93	.127	1.622	-220.4	gray
1607	↓	↓	7.43	2.801	–	0.16	31.32	.128	1.631	-242.4	gray
1609	↓	↓	7.43	2.882	–	0.14	30.61	.134	1.716	-251.2	gray
	Sampled at 1610										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/9/14 Z/DPT0298 Mike Burham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1109	0298	31-35	7.29	1.442	–	0.34	29.60	.090	1.164	-207.9	grey
1111	↓	↓	7.20	1.907	–	0.48	27.17	.092	1.189	-202.5	cloudy
1113	↓	↓	7.16	1.886	–	0.42	26.59	.092	1.188	-196.8	cloudy
	Sampled at 1114										
1128	0298	36-40	7.29	2.054	–	0.21	29.40	.096	1.239	-233.0	grey
1130	↓	↓	7.23	2.046	–	0.17	28.46	.097	1.246	-232.4	cloudy
1132	↓	↓	7.18	2.016	–	0.19	27.84	.096	1.241	-225.1	cloudy
	Sampled at 1133										
1147	0298	41-45	7.30	2.479	–	0.15	32.30	.110	1.422	-216.3	grey
1149	↓	↓	7.26	2.469	–	0.11	30.13	.114	1.465	-221.0	cloudy
1151	↓	↓	7.26	2.459	–	0.11	28.97	.116	1.485	-218.6	cloudy
	Sampled at 1152										
1207	0298	46-50	7.36	2.934	–	0.20	32.24	.131	1.666	-224.0	grey
1209	↓	↓	7.36	2.881	–	0.12	31.37	.131	1.668	-239.8	grey
1211	↓	↓	7.36	2.866	–	0.12	30.49	.133	1.689	-260.7	grey
	Sampled at 1212										
1331	0298	56-60	7.48	3.953	–	1.79	28.15	.195	2.426	-216.2	grey
1333	↓	↓	7.49	3.938	–	1.55	27.77	.196	2.430	-221.5	grey/cloudy
1335	↓	↓	7.49	3.915	–	1.34	27.46	.196	2.423	-228.8	↓
	Sampled at 1336										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/9/14 DPT0297 (Y) M. Beckham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0831	0297	31-35	7.22	2.035	–	0.25	27.15	.099	1.265	-164.7	grey
0833	↓	↓	7.18	1.977	–	0.20	26.48	.097	1.246	-172.5	cloudy
0835	↓	↓	7.15	1.946	–	0.20	26.09	.096	1.236	-176.1	cloudy
	Sampled at 0836										
0848	0297	36-40	7.28	2.226	–	0.28	27.90	.107	1.372	-197.0	grey
0850	↓	↓	7.26	2.226	–	0.26	27.65	.108	1.378	-212.0	cloudy
0852	↓	↓	7.24	2.219	–	0.24	27.35	.108	1.380	-220.6	cloudy
	Sampled at 0853										
0958	0297	41-45	7.39	1.971	–	0.19	29.86	.085	1.088	-310.0	grey
1000	↓	↓	7.38	1.634	–	0.17	29.66	.073	0.955	-383.8	grey
1002	↓	↓	7.38	1.560	–	0.18	29.32	.071	0.932	-422.9	grey
	Sampled at 1003										
1017	0297	46-50	7.27	2.680	–	0.26	29.85	.125	1.595	-367.4	grey
1019	↓	↓	7.28	2.678	–	0.17	29.16	.127	1.616	-411.2	cloudy
1021	↓	↓	7.25	2.680	–	0.16	28.68	.127	1.619	-418.8	cloudy
	Sampled at 1022										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 6/6/14 & 6/9/14 DPT0296 (X) M. Buscham

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1530	0296	31-35	7.13	2.013	–	7.19	27.90	.095	1.216	-170.8	grey
1532	↓	↓	6.97	1.898	–	3.95	27.03	.092	1.186	-159.2	cloudy
1534	↓	↓	6.95	1.983	–	3.05	26.57	.092	1.188	-159.3	cloudy
	Sampled at 1535										
1550	0296	36-40	7.18	2.047	–	0.83	29.46	.095	1.225	-235.0	light grey
1552	↓	↓	7.09	2.007	–	0.78	27.83	.096	1.233	-224.7	cloudy
1554	↓	↓	7.03	1.973	–	0.79	27.14	.096	1.231	-224.4	cloudy
	Sampled at 1555										
1609	0296	41-45	7.17	2.233	–	0.55	30.04	.102	1.317	-202.6	grey
1611	↓	↓	7.14	2.178	–	0.53	28.86	.101	1.304	-218.8	cloudy
1613	↓	↓	7.10	2.160	–	0.53	28.47	.103	1.318	-227.2	cloudy
	Sampled at 1614		XMB								
1632	0296	46-50	7.35	2.302	–	0.43	30.29	.106	1.369	-411.9	grey
1634	↓	↓	7.31	2.361	–	0.42	30.14	.109	1.406	-444.9	grey
1636	↓	↓	7.30	2.411	–	0.42	29.86	.112	1.441	-456.8	grey
XMB	Sampled at 1637										
6/14/14 0758	0296	56-60	7.23	3.659	–	0.31	24.29	.145	2.411	-165.4	grey
0757	↓	↓	7.38	3.637	–	0.27	23.56	.147	2.429	-184.1	cloudy
0759	↓	↓	7.34	3.612	–	0.27	23.41	.146	2.421	-179.7	cloudy
	Sampled at 0800										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

'S:

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/06/14 DPT0295 (A2)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0940	0295	16-20	6.64	1.232	–	3.47	29.77	0.056	0.741	-96.1	cloudy
0942	↓	↓	6.62	1.212	–	2.01	29.13	0.055	0.732	-110.3	↓
0944	↓	↓	6.62	1.198	–	1.58	28.83	0.055	0.727	-117.2	↓
	Sampled at 0945						(CS)				
1006	0295	21-25	6.73	1.321	–	0.46	30.59	0.059	0.785	-209.0	milky
1008	↓	↓	6.69	1.293	–	0.43	29.61	0.059	0.777	-312.5	cloudy
1010	↓	↓	6.65	1.269	–	0.44	29.25	0.058	0.766	-338.9	↓
	Sampled at 1011										
1035	0295	26-30	6.85	1.299	–	0.34	30.34	0.058	0.770	-333.9	cloudy
1037	↓	↓	6.85	1.036	–	0.36	29.63	0.047	0.626	-433.8	↓
1039	↓	↓	6.87	0.990	–	0.36	29.24	0.045	0.601	-470.8	
	Sampled at 1040								(D1)		
1146	0295	31-35	7.01	1.910	–	0.28	32.60	0.081	1.076	-483.4	cloudy gray
1148	↓	↓	6.97	1.926	–	0.29	30.63	0.087	1.134	-500.0	cloudy
1150	↓	↓	6.98	1.808	–	0.29	30.11	0.085	1.100	-510.4	↓
	Sampled at 1151										
1310	0295	36-40	7.07	2.837	–	2.81	31.65	0.123	1.593	-240.0	milky gray
1312	↓	↓	4.99	2.794	–	2.26	30.82	0.129	1.641	-256.7	cloudy
1314	↓	↓	6.99	2.764	–	1.51	30.47	0.128	1.628	-272.5	↓
	Sampled at 1315										
1353	0295	41-45	7.20	2.941	–	0.39	32.18	0.132	1.681	-335.2	milky gray
—	↓	↓	Insufficient water volume to collect addl. readings		–						
	Sampled at 1354										
		46-50			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es.

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/05/14 DPT0294 (B2)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1402	0294	16-20	6.85	1.251	–	1.76	30.85	0.056	0.741	-235.4	cloudy
1404	↓	↓	6.83	(CA) 1.203	–	1.62	30.12	0.055	0.720	-279.1	↓
1406	↓	↓	6.84	1.161	–	1.52	29.61	0.053	0.705	-312.6	↓
	Sampled at 1407										
1424	0294	21-25	6.86	1.388	–	0.69	30.51	0.061	0.807	-396.2	cloudy
1426	↓	↓	6.81	1.370	–	0.68	30.35	0.061	0.808	-453.0	↓
1428	↓	↓	6.76	1.324	–	0.69	30.07	0.060	0.790	-440.7	↓
	Sampled at 1429										
1452	0294	26-30	6.83	1.459	–	0.62	30.13	0.066	0.873	-498.9	cloudy
1454	↓	↓	6.77	1.403	–	0.60	29.25	0.065	0.853	-499.3	↓
1456	↓	↓	6.76	1.384	–	0.59	28.94	0.064	0.838	-500.8	↓
	Sampled at 1457										
1548	0294	31-35	6.98	2.467	–	1.50	30.90	0.115	1.472	-386.6	cloudy
1550	↓	↓	6.94	2.433	–	1.38	29.55	0.114	1.460	-374.6	↓
1552	↓	↓	6.94	2.428	–	1.31	29.30	0.114	1.457	-372.9	↓
	Sampled at 1553										
1622	0294	36-40	7.21	3.014	–	0.32	32.80	0.125	1.643	-434.3	cloudy
1624	↓	↓	7.20	3.353	–	0.30	31.32	0.148	1.889	-412.4	↓
1626	↓	↓	7.17	3.416	–	0.30	30.88	0.158	1.997	-373.9	↓
	Sampled at 1627			(CA)					(CA)		
1651	0294	41-45	7.28	4.916	–	0.37	30.91	0.217	2.838	-173.1	milky brown
1653	↓	↓	7.28	4.950	–	0.33	30.22	0.238	2.930	-173.4	cloudy
1655	↓	↓	7.27	4.935	–	0.33	(CA) 29.62	0.239	2.943	-175.1	↓
	Sampled at 1656										
		46-50			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

es

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/05/14 DPT0293 (N)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0905	0293	31-35	7.45	2.131	–	2.54	23.87	0.114	1.417	-564.0	cloudy
0907	↓	↓	7.65	2.025	–	1.79	24.31	0.106	1.344	-577.9	↓
0911	↓	↓	7.65	2.006	–	1.40	24.61	0.103	1.318	-583.0	↓
	Sampled at 0912										
0923	0293	36-40	7.30	2.573	–	0.33	26.79	0.123	1.603	-368.1	milky gray
0925	↓	↓	7.23	2.566	–	0.28	26.38	0.128	1.621	-450.7	↓
0927	↓	↓	7.20	2.555	–	0.28	26.05	0.128	1.626	-452.1	↓
	Sampled at 0923										
0941	0293	41-45	7.37	2.684	–	0.24	27.24	0.131	1.658	-318.2	milky tan
0943	↓	↓	7.29	2.728	–	0.19	26.85	0.135	1.713	-461.4	cloudy
0945	↓	↓	7.25	2.722	–	0.20	26.53	0.136	1.722	-451.9	↓
	Sampled at 0946										
1001	0293	46-50	7.74	1.864	–	0.19	26.72	0.091	1.175	-508.0	milky gray
—	↓	↓	Insufficient water volume to collect addtl. readings								
—	↓	↓			–						
	Sampled at 1002			(AS)							
1057	0293	56-60	7.57	4.194	–	3.19	28.54	0.206	2.553	-243.1	very cloudy gray
1059	↓	↓	7.57	4.202	–	1.98	27.88	0.210	2.591	-278.6	↓
1101	↓	↓	7.59	4.159	–	1.51	28.04	0.207	2.557	-310.6	
	Sampled at 1102										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/04/14 + 06/05/14 DPT 0292 (V)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1642	0292	31-35	7.29	1.744	–	0.11	28.50	0.082	1.066	-149.2	cloudy
1644	↓	↓	7.21	1.725	–	0.11	28.09	0.082	1.064	-146.5	↓
1646	↓	↓	7.16	1.705	–	0.12	27.73	0.082	1.059	-141.0	↓
	Sampled at 1647		– 06/04/14								
1700	0292	36-40	7.07	1.722	–	0.07	29.45	0.080	1.041	-162.9	cloudy
1702	↓	↓	7.08	1.705	–	0.06	28.65	0.080	1.039	-165.0	↓
1704	↓	↓	7.06	1.690	–	0.06	28.25	0.080	1.037	-163.2	↓
	Sampled at 1705		– 06/04/14						②		
1720	0292	41-45	7.10	1.607	–	0.05	28.60	0.076	0.982	-191.8	cloudy
1722	↓	↓	7.12	1.676	–	0.04	27.49	0.079	1.031	-193.7	↓
1724	↓	↓	7.09	1.696	–	0.04	27.00	0.082	1.063	-189.1	↓
	Sampled at 1725		– 06/04/14								
0801	0292	46-50	7.65	1.464	–	2.04	19.45	0.075	0.972	-157.8	milky gray brown
0803	↓	↓	7.66	1.633	–	1.56	20.30	0.091	1.166	-427.1	↓
0805	↓	↓	7.67	1.629	–	1.23	20.67	0.090	1.154	-466.7	↓
	Sampled at 0806		– 06/05/14		from	thin	depth	down			
0821	0292	56-60	7.62	1.567	–	0.60	22.17	0.085	1.073	-573.4	milky
0823	↓	↓	7.61	1.681	–	0.33	22.24	0.087	1.120	-491.4	cloudy
0825	↓	↓	7.61	1.889	–	0.34	22.38	0.098	1.264	-455.3	↓
	Sampled at 0826										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/04/14 DPT0291 (W)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1359	0291	31-35	7.29	1.946	–	0.38	28.48	0.093	1.200	-146.3	cloudy
1401	↓	↓	7.04	1.873	–	0.41	27.64	0.091	1.169	-129.7	↓
1403	↓	↓	6.97	1.856	–	0.31	27.24	0.091	1.158	-125.6	↓
	Sampled at 1404						~~28~~ (2)				
1420	0291	36-40	6.96	2.368	–	0.08	29.71	0.111	1.422	-154.8	cloudy
1422	↓	↓	6.93	2.355	–	0.08	29.96	0.111	1.426	-147.9	↓
1424	↓	↓	6.92	2.352	–	0.07	28.74	0.112	1.427	-144.6	↓
	Sampled at 1425						(2) 30.91				
1436	0291	41-45	7.04	2.588	–	0.19	~~2.535~~	0.113	1.461	-181.7	cloudy
1438	↓	↓	7.05	2.655	–	0.08	~~2.663~~	0.122	1.563	-178.0	↓
1440	↓	↓	7.04	2.639	–	0.06 (2)	~~29.85~~ 29.40	0.124	1.578	-175.5	↓
	Sampled at 1441										
1501	0291	46-50	7.58	2.547	–	0.23	26.14	0.128	1.623	-173.9	milky brown
—	↓	↓	~~Insufficient water volume to collect additional readings~~		–						
—	↓	↓			–						
	Sampled at 1502		~~7.45~~	~~2.820~~ (2)		~~8.01~~	~~27.77~~	~~0.129~~	~~1.643~~	~~-281.2~~	~~cloudy~~ (2)
1553	0291	56-60	7.45	2.820	–	0.07	27.71	0.129	1.643	-281.2	cloudy
1555	↓	↓	7.45	2.867	–	0.07	28.51	0.184	2.322	-285.1	↓
1557	↓	↓	7.40	2.942	–	0.07	28.72	0.192	2.390	-280.1	↓
	Sampled at 1558										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/04/14 DPT0290 (T)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
		↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
		↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
		↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
		↓			–						
	↓	↓			–						
	Sampled at										
1040	0290	31-35	7.12	1.763	–	0.12	26.13	0.087	1.122	-115.7	cloudy
1042	↓	↓	6.99	1.757	–	0.13	26.07	0.087	1.120	-115.6	↓
1044	↓	↓	6.92	1.744	–	0.14	25.89	0.087	1.117	-115.5	↓
	Sampled at 1045										
1059	0290	36-40	7.02	1.963	–	0.08	28.99	0.092	1.188	-165.7	cloudy
1101	↓	↓	7.00	1.931	–	0.07	27.67	0.094	1.206	-157.2	↓
1103	↓	↓	6.94	1.904	–	0.08	26.96	0.093	1.197	-137.8	↓
	Sampled at 1104										
1118	0290	41-45	7.11	2.210	–	0.13	31.51	0.100	1.293	-186.5	cloudy
1120	↓	↓	7.10	2.194	–	0.05	30.08	0.101	1.302	-189.2	↓
1122	↓	↓	7.06	2.163	–	0.05	29.03	0.102	1.306	-190.3	↓
	Sampled at 1123										
1138	0290	46-50	7.13	2.637	–	0.07	31.75	0.115	1.495	-158.1	milky grey
1140	↓	↓	7.14	2.509	–	0.05	31.40	0.114	1.460	-183.9	↓
1142	↓	↓	7.13	2.493	–	0.04	31.06	0.113	1.450	-189.6	cloudy
	Sampled at 1143							~~0.195~~ (S)			
1159	0290	56-60	7.39	4.165	–	0.10	29.03	0.195	2.489	-163.0	cloudy
1201	↓	↓	7.31	4.147	–	0.08	28.51	0.204	2.523	-170.8	↓
1203	↓	↓	7.25	4.144	–	0.08	28.17	0.206	2.543	-172.3	↓
	Sampled at 1204										
		61-65			–						
		↓			–						
	↓	↓			–						
	Sampled at										
					–						
		↓			–						
	↓	↓			–						
	Sampled at										

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/03/14 + 06/04/14 DPT0289 (R)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1654	0289	8-12	7.14	0.382	–	0.58	26.94	0.042	0.563	-101.8	cloudy
1656	↓	↓	7.09	0.850	–	0.52	26.09	0.041	0.547	-98.5	↓
1658	↓	↓	7.07	0.827	–		25.41	0.040	0.533	-96.4	clear
	Sampled at 1659		– 06/03/14								
1707	0289	16-20	7.00	2.015	–	0.14	27.56	0.098	1.256	-143.4	cloudy
1709	↓	↓	7.02	2.053	–	0.10	27.44	0.099	1.275	-148.5	↓
1711	↓	↓	7.02	2.054	–	0.08	27.27	0.100	1.281	-145.2	↓
	Sampled at 1712		– 06/03/14								
0723	0289	21-25	7.38	1.918	–	0.32	23.78	0.079	1.372	-78.7	cloudy
0725	↓	↓	7.25	1.945	–	0.24	24.07	0.101	1.288	-115.7	↓
0727	↓	↓	7.15	1.945	–	0.22	24.08	0.101	1.287	-123.9	↓
	Sampled at 0728		– 06/04/14	from here through bottom depth							
0738	0289	26-30	6.76	1.674	–	0.15	24.36	0.085	1.095	-121.0	cloudy
0740	↓	↓	6.78	1.705	–	0.14	24.40	0.087	1.120	-124.0	↓
0742	↓	↓	6.77	1.703	–	0.17	24.32	0.087	1.123	-120.5	↓
	Sampled at 0743										
0755	0289	31-35	6.83	1.494	–	0.14	24.87	0.076	0.981	-149.0	milky
0757	↓	↓	6.82	1.492	–	0.10	25.04	0.075	0.972	-146.5	↓
0759	↓	↓	6.80	1.478	–	0.10	24.95	0.074	0.963	-139.3	cloudy
	Sampled at 0800										
0813	0289	36-40	6.80	1.713	–	0.11	25.65	0.084	1.086	-142.3	milky
0815	↓	↓	6.83	1.700	–	0.09	25.68	0.085	1.095	-130.8	cloudy
0817	↓	↓	6.81	1.677	–	0.10	25.48	0.084	1.083	-122.6	↓
	Sampled at 0818						@		@		dark milky
08:30	0289	41-45	6.87	2.093	–	0.14	25.35	0.096	1.235	-169.4	milky
08:32	↓	↓	6.89	2.155	–	0.07	25.26	0.109	1.394	-153.7	cloudy
08:34	↓	↓	6.87	2.148	–	0.08	25.00	0.110	1.397	-140.3	↓
	Sampled at 0835										
0849	0289	46-50	7.02	2.119	–	0.07	26.62	0.099	1.335	-181.0	milky
0851	↓	↓	7.13 @	1.797	–	0.06	26.48	0.094	1.188 @	-198.5	cloudy
0853	↓	↓	7.15	1.648	–	0.06	26.49	0.081	1.060 @	-205.1	↓
	Sampled at 0854										
0938	0289	56-60	7.32	2.238	–	0.15	25.85	0.113	1.436	-276.1	cloudy
0940	↓	↓	7.32 @	2.240	–	0.11	26.09	0.112	1.425	-280.3	↓
0942	↓	↓	7.31	2.250	–	0.10	25.96	0.113	1.437	-282.9	↓
	Sampled at 0943										
		61-65			–						
	↓	↓			–						
	Sampled at				–						
					–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/03/14 DPT0288 (BI)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1438	0288	26-30	7.16	0.708	–	0.22	28.18	0.032	0.437	-107.0	cloudy
1440	↓	↓	7.10	0.700	–	0.25	27.74	0.032	0.432	-105.4	↓
1442	↓	↓	7.05	0.693	–	0.28	27.80	0.032	0.428	-105.4	↓
	Sampled at 1443										
1456	0288	31-35	7.16	0.804	–	0.12	29.25	0.035	0.480	-153.1	milky tan
1458	↓	↓	7.16	0.787	–	0.08	28.81	0.036	0.479	-148.0	cloudy
1500	↓	↓	7.13	0.782	–	0.07	28.66	0.035	0.474	-139.2	↓
	Sampled at 1501							(2A)			
1544	0288	36-40	7.40	0.985	–	0.17	29.46	0.044	0.540	-159.9	cloudy tan
1546	↓	↓	7.37	0.987	–	0.15	29.35	0.044	0.592	-159.0	↓
1548	↓	↓	7.32	0.984	–	0.12	29.51	0.044	0.589	-156.7	↓
	Sampled at 1549										
1602	0288	41-45	7.25	0.927	–	0.07	29.38	0.042	0.559	-155.1	milky tan
1604	↓	↓	7.21	0.914	–	0.08	29.95	0.042	0.556	-147.9	↓
1606	↓	↓	7.18	0.906	–	0.09	28.46	0.041	0.554	-138.8	↓
	Sampled at 1607										
		46-50			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/03/14 DPT0287 (BH)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1241	0287	26-30	7.27	0.852	–	0.53	27.80	0.039	0.524	-105.4	milky tan
1243	↓	↓	7.19	0.852	–	0.36	27.70	0.039	0.523	-109.1	cloudy
1245	↓	↓	7.12	0.845	–	0.28	27.44	0.039	0.526	-108.7	↓
	Sampled at 1246										
1259	0287	31-35	6.98	0.852	–	0.12	27.72	0.040	0.528	-102.5	very cloudy
1301	↓	↓	6.94	0.825	–	0.13	27.49	0.038	0.513	-95.7	↓
1303	↓	↓	6.93	0.811	–	0.12	27.39	0.038	0.506	-94.4	↓
	Sampled at 1304										
1320	0287	36-40	7.04	0.988	–	0.07	28.15	0.046	0.608	-124.0	milky gray
1322	↓	↓	7.00	0.980	–	0.08	27.91	0.045	0.604	-117.4	cloudy
1324	↓	↓	6.96	0.973	–	0.09	27.87	0.045	0.601	-111.6	↓
	Sampled at 1325										
1340	0287	41-45	7.20	1.154	–	0.07	29.26	0.052	0.694	-189.2	milky tan-brown
1342	↓	↓	7.27	1.166	–	0.05	28.37	0.054	0.719	-209.8	cloudy
1344	↓	↓	7.30	0.997	–	0.05	28.09	0.048	0.624	-229.6	↓
	Sampled at 1345										
		46-50			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/03/14 DPT0286 (BG)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
		↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
		↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
		↓			–						
	↓	↓			–						
	Sampled at										
0927	0286	26-30	7.47	1.148	–	0.14	27.04	0.056	0.731	-179.9	cloudy
0929			7.38	1.103	–	0.20	26.99	0.053	0.693	-205.9	↓
0931	↓	↓	7.37	1.089	–	0.21	26.91	0.052	0.684	-209.5	↓
	Sampled at 0932										
0943	0286	31-35	7.23	0.943	–	0.04	27.25	0.045	0.592	-236.8	brown milky
(0945)			7.27	0.908	–	0.04	27.31	0.043	0.571	-243.3	↓
0947	↓	↓	7.28	0.887	–	0.04	27.30	0.042	0.555	-248.9	↓
	Sampled at 0948										
1024	0286	36-40	7.48	1.292	–	0.38	28.16	0.060	0.795	-161.8	cloudy
1026			7.37	1.275	–	0.20	27.68	0.060	0.790	-149.7	↓
1028	↓	↓	7.32	1.268	–	0.18	27.50	0.060	0.788	-145.2	↓
	Sampled at 1029										
1042	0286	41-45	7.22	1.530	–	0.28	27.54	0.071	0.934	-171.4	milky gray
1044			7.21	1.593	–	0.10	28.20	0.074	0.970	-179.0	cloudy / brown
1046	↓	↓	7.22	1.616	–	0.07	27.97	0.076	0.991	-180.3	↓
	Sampled at 1047										
1101	0286	46-50	7.24	1.508	–	0.19	26.57	0.073	0.957	-191.2	milky gray
1103			7.26	1.386	–	0.13	26.94	0.068	0.875	-191.9	↓
1105	↓	↓	7.28	1.318	–	0.11	26.98	0.064	0.833	-199.9	↓
	Sampled at 1106			(CS)					(CS)		
1129	0286	56-60	7.37	3.596	–	0.31	27.26	0.176	2.200	-167.7	milky gray
1131			7.37	3.788	–	0.17	27.15	0.187	2.340	-202.8	↓
1133	↓	↓	7.34	3.910	–	0.14	27.02	0.197	2.438	-203.6	↓
	Sampled at 1134										
		61-65			–						
		↓			–						
	↓	↓			–						
	Sampled at										
					–						
		↓			–						
	↓	↓			–						
	Sampled at										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/03/14 DPT 0285 (BF)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0728	0285	31-35	7.23	0.903	–	0.16	25.46	0.044	0.583	-141.4	milky tan
0730	↓	↓	7.17	0.900	–	0.19	25.89	0.043	0.565	-167.1	↓
0732	↓	↓	7.08	0.901	–	0.28	25.92	0.043	0.576	-163.4	~~cloudy~~ (24) cloudy
	Sampled at 0733										
0754	0285	36-40	7.09	0.955	–	0.16	26.48	0.045	0.600	-178.2	cloudy
0756	↓	↓	7.21	0.965	–	0.09	26.65	0.046	0.609	-180.4	↓
0758	↓	↓	7.19	0.959	–	0.10	26.45	0.046	0.607	-172.9	↓
	Sampled at 0759										
0812	0285	41-45	7.16	1.089	–	0.08	27.24	0.051	0.676	-161.8	cloudy
0814	↓	↓	7.21	1.084	–	0.06	27.16	0.051	0.678	-167.7	↓
0816	↓	↓	7.19	1.084	–	0.08	26.97	0.051	0.680	-159.0	↓
	Sampled at 0817										
0830	0285	46-50	7.10	1.338	–	0.09	27.79	0.062	0.817	-162.9	cloudy
0832	↓	↓	7.15	1.344	–	0.05	27.69	0.063	0.831	-166.13	↓
0834	↓	↓	7.15	1.344	–	0.05	27.41	0.064	0.837	-162.7	↓
	Sampled at 0835								(24)		
0849	0285	56-60	7.11	3.780	–	0.06	27.59	0.184	2.334	-189.9	milky tan
0851	↓	↓	7.17	3.896	–	0.06	27.23	0.196	2.426	-182.8	↓
0853	↓	↓	7.15	3.896	–	0.05	26.96	0.197	2.442	-174.4	↓
	Sampled at 0854										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/24/14 DPT0284 (BJ)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1420	0284	26-30	7.28	0.944	–	0.35	29.64	0.043	0.574	-120.6	cloudy
1422	↓	↓	7.16	0.913	–	0.26	28.46	0.042	0.560	-106.1	↓
1424	↓	↓	7.08	0.897	–	0.27	27.93	0.041	0.554	-96.1	↓
	Sampled at 1425										
1434	0284	31-35	7.09	1.040	–	0.15	29.60	0.047	0.623	-115.1	milky tan
1436	↓	↓	7.08	1.038	–	0.09	29.30	0.047	0.625	-118.5	↓
1438	↓	↓	7.07	1.029	–	0.09	29.06	0.047	0.622	-119.1	cloudy tan-gray
	Sampled at 1439										
1452	0284	36-40	7.14	1.133	–	0.07	29.56	0.051	0.679	-150.2	milky tan
1454	↓	↓	7.12	1.119	–	0.06	28.96	0.051	0.677	-138.1	↓
1456	↓	↓	7.09	1.113	–	0.05	28.95	0.051	0.676	-130.6	cloudy tan
	Sampled at 1457										
1541	0284	41-45	7.24	1.243	–	0.17	28.90	0.058	0.766	-158.9	cloudy tan
1543	↓	↓	7.27	1.309	–	0.14	28.91	0.060	0.789	-165.8	↓
1545	↓	↓	7.28	1.320	–	0.11	28.73	0.061	0.801	-162.8	↓
	Sampled at 1546										
1604	0284	46-50	7.41	1.473	–	0.12	27.77	0.069	0.900	-182.1	cloudy tan
1606	↓	↓	7.53	1.509	–	0.09	27.91	0.071	0.928	-165.8	↓
1608	↓	↓	7.49	1.513	–	0.09	27.75	0.072	0.934	-162.4	↓
	Sampled at 1609						~~28.84~~	~~0.176~~ (DS)			
1628	0284	56-60	7.28 (DS)	2.962	–	0.07	28.84	0.176	1.928	-185.7	cloudy tan
1630	↓	↓	7.30	3.180	–	0.04	28.57	0.146	1.860	-202.7	↓
1632	↓	↓	7.32	3.603	–	0.04	28.44	0.173	2.174	-210.5	↓
	Sampled at 1633										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/02/14 DPT0283 (BP)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1231	0283	26-30	7.56	1.239	–	0.10	28.65	0.062	0.801	-160.9	cloudy
1233	↓	↓	7.53	1.081	–	0.13	28.14	0.052	0.681	-178.8	↓
1235	↓	↓	7.52	1.017	–	0.16	27.65	0.048	0.634	-190.1	↓
	Sampled at 1236					(A)					
1248	0283	31-35	7.49	1.172	–	0.04	27.25	0.055	0.728	-255.1	milky gray
1250	↓	↓	7.48	1.179	–	0.04	27.42	0.055	0.732	-260.4	cloudy
1252	↓	↓	7.49	1.187	–	0.03	27.62	0.056	0.734	-265.9	↓
	Sampled at 1253										
1304	0283	36-40	7.52	1.156	–	0.09	28.82	0.053	0.704	-182.8	cloudy
1306	↓	↓	7.45	1.148	–	0.05	28.44	0.053	0.702	-180.4	↓
1308	↓	↓	7.39	1.135	–	0.05	28.09	0.053	0.699	-173.0	↓
	Sampled at 1309										
1323	0283	41-45	7.32	1.279	–	0.04	29.17	0.058	0.770	-164.4	cloudy
1325	↓	↓	7.28	1.260	–	0.04	28.98	0.058	0.769	-160.2	↓
1327	↓	↓	7.26	1.247	–	0.06	28.90	0058	0.765	-157.0	↓
	Sampled at 1328										
1344	0283	46-50	7.39	1.308	–	0.03	29.44	0.058	0.768	-192.1	milky gray
1346	↓	↓	7.36	1.366	–	0.03	29.54	0.061	0.[illegible]	-203.9	↓
1348	↓	↓	7.34	1.399	–	0.03	29.47	0.063	0.835	-210.9	↓
	Sampled at 1349										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/02/14 DPT 0282 (BG)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0934	0282	21-25	7.34	1.033	–	0.72	25.57	0.057	0.667	-94.8	cloudy
0936	↓	↓	7.22	1.019	–	0.49	25.29	0.052	0.660	-88.9	↓
0938	↓	↓	7.15	1.010	–	0.42	25.14	0.050	0.655	-86.4	↓
	Sampled at 0939										
0949	0282	26-30	7.22	1.149	–	0.38	25.13	0.057	0.748	-141.7	cloudy
0951	↓	↓	7.20	1.195	–	0.24	25.35	0.059	0.771	-132.6	↓
0953	↓	↓	7.18	1.197	–	0.52	25.29	0.059	0.773	-122.6	↓
	Sampled at 0954										
1004	0282	31-35	7.26	1.032	–	0.08	26.07	0.050	0.657	-147.2	cloudy
1006	↓	↓	7.23	1.027	–	0.07	26.05	0.050	0.655	-144.2	↓
1008	↓	↓ (DS)	7.19	1.017	–	0.08	25.93	0.049	0.650	-134.9	↓
	Sampled at 1009										
1020	0282	36-40	7.29	1.159	–	0.14	27.74	0.054	0.715	-166.3	milky brown gray
1022	↓	↓	7.32	1.157	–	0.08	27.90	0.054	0.714	-175.3	↓
1024	↓	↓	7.31	1.157	–	0.07	27.83	0.054	0.713	-176.5	↓
	Sampled at 1025										
1036	0282	41-45	7.27	1.202	–	0.06	28.02	0.056	0.740	-162.0	tan cloudy
1038	↓	↓	7.26	1.198	–	0.06	27.76	0.056	0.741	-159.0	↓
1040	↓	↓	7.25	1.194	–	0.06	27.51	0.056	0.741	-157.3	↓
	Sampled at 1041										(DS) light tan cloudy gray
1112	0282	46-50	7.30	1.680	–	0.21	28.19	0.079	1.028	-163.5	
1114	↓	↓	7.31	1.670	–	0.13	28.04	0.079	1.031	-169.9	
1116	↓	↓	7.30	1.674	–	0.10	27.85	0.080	1.034	-166.7	↓
	Sampled at 1117								(DS)		
1132	0282	56-60	7.34	4.165	–	0.08	27.50	0.205	2.564	-192.4	cloudy tan
1134	↓	↓	7.36	4.206	–	0.05	27.55	0.210	2.600	-196.3	↓
1136	↓	↓	7.36	4.238	–	0.04	27.53	0.213	2.626	-194.3	↓
	Sampled at 1137										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 06/02/14 DPT0281 (BR)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0725	0281	26-30	7.37	1.498	–	0.30	24.70	0.075	0.976	-62.9	cloudy
0727	↓	↓	7.07	1.511	–	0.32	24.63	0.076	0.990	-70.1	↓
0729	↓	↓	7.00	1.503	–	0.39	24.56	0.076	0.986	-71.4	↓
	Sampled at 0730										
0742	0281	31-35	7.19	0.944	–	0.14	25.68	0.048	0.617	-153.7	cloudy
0744	↓	↓	7.29	0.901	–	0.09	25.68	0.044	0.580	-164.9	↓
0746	↓	↓	7.27	0.890	–	0.09	25.58	0.043	0.573	-161.0	↓
	Sampled at 0747										
0827	0281	36-40	7.45	0.866	–	0.16	25.77	0.042	0.554	-207.4	cloudy
0829	↓	↓	7.45	0.843	–	0.13	25.46	0.041	0.545	-210.3	↓
0831	↓	↓	7.43	0.835	–	0.12	25.36	0.041	0.539	-210.2	↓
	Sampled at 0832										
0845	0281	41-45	7.41	0.881	–	0.05	26.05	0.042	0.556	-206.9	milky gray
0847	↓	↓	7.45	0.881	–	0.06	26.32	0.042	0.560	-201.5	↓
0849	↓	↓	7.43	0.873	–	0.07	24.03	0.042	0.557	-188.8	↓
	Sampled at 0850					(DO)					
0904	0281	46-50	7.43	1.011	–	0.38	25.08	0.055	0.658	-249.9	milky gray
0906	↓	↓	7.47	0.994	–	0.18	24.89	0.049	0.649	-270.4	↓
0908	↓	↓	7.47	0.986	–	0.17	24.82	0.049	0.646	-273.9	↓
	Sampled at 0909										
		56-60			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/30/14 DPT0280 (BW)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1417	0280	21-25	6.91	0.784	–	0.10	28.24	0.035	0.475	-129.9	cloudy
1419	↓	↓	6.85	0.753	–	0.12	27.64	0.035	0.466	-119.6	↓
1421	↓	↓	6.84	0.747	–	0.13	27.54	0.035	0.464	-118.9	↓
	Sampled at 1422										
1434	0280	26-30	6.90	0.847	–	0.08	29.58	0.038	0.511	-115.4	cloudy
1436	↓	↓	6.83	0.816	–	0.14	28.72	0.037	0.499	-104.1	↓
1438	↓	↓	6.75	0.796	–	0.18	27.86	0.037	0.492	-90.2	↓
	Sampled at 1439										
1532	0280	31-35	7.44	1.040	–	0.33	29.34	0.046	0.620	-128.7	cloudy
1534	↓	↓	7.03	0.993	–	0.32	28.31	0.046	0.610	-115.0	↓
1536	↓	↓	6.91	0.970	–	0.26	27.66	0.045	0.603	-103.0	↓
	Sampled at 1538										
1553	0280	36-40	6.95	1.200	–	0.07	29.16	0.055	0.728	-158.3	cloudy
1555	↓	↓	6.89	1.170	–	0.10	28.16	0.054	0.720	-147.6	↓
1557	↓	↓	6.86	1.153	–	0.12	27.73	0.054	0.714	-143.5	↓
	Sampled at 1558										
1611	0280	41-45	7.36	1.244	–	0.17	29.77	0.056	0.738	-145.0	milky gray
1613	↓	↓	7.14	1.222	–	0.12	29.43	0.055	0.733	-151.8	↓
1615	↓	↓	7.09	1.224	–	0.11	29.09	0.056	0.739	-150.5	↓
	Sampled at 1616										
1630	0280	46-50	7.04	0.966	–	0.05	27.72	0.045	0.593	-133.1	cloudy
1632	↓	↓	6.94	0.942	–	0.06	27.52	0.044	0.585	-121.1	↓
1634	↓	↓	6.91	0.936	–	0.08	27.43	0.044	0.582	-116.5	↓
	Sampled at 1635										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/30/14 DPT0279 (GS)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1033	0279	26-30	7.12	0.935	–	0.27	28.27	0.043	0.572	-116.6	cloudy
1035	↓	↓	7.05	0.904	–	0.24	27.45	0.042	0.564	-108.8	↓
1037	↓	↓	7.00	0.891	–	0.23	27.06	0.042	0.558	-95.7	↓
	Sampled at 1038										
1116	0279	31-35	7.05	0.954	–	0.14	30.55	0.042	0.566	-157.1	cloudy
1118	↓	↓	7.05	0.908	–	0.13	29.96	0.041	0.542	-177.3	↓
1120	↓	↓	7.05	0.872	–	0.11	29.64	0.039	0.523	-186.9	↓
	Sampled at 1121										
1133	0279	36-40	6.90	1.063	–	0.10	29.66	0.048	0.640	-144.4	tan cloudy
1135	↓	↓	6.83	1.038	–	0.13	28.29	0.048	0.638	-138.6	↓
1137	↓	↓	6.78	1.023	–	0.24	27.70	0.048	0.633	-128.1	↓
	Sampled at 1138										
1152	0279	41-45	6.98	1.135	–	0.11	29.32	0.051	0.680	-158.6	grey cloudy
1154	↓	↓	6.96	1.132	–	0.05	29.06	0.052	0.684	-155.3	↓
1156	↓	↓	6.92	1.121	–	0.04	28.49	0.052	0.683	-156.6	↓
	Sampled at 1157										
1341	0279	46-50	7.35	1.137	–	0.25	31.73	0.049	0.657	-147.9	cloudy tan grey
1343	↓	↓	7.23	1.104	–	0.15	31.04	0.048	0.645	-150.3	↓
@1345	↓	↓	7.20	1.100	–	0.14	30.69	0.048	0.644	~~-150.3~~ -150.3	↓
	Sampled at 1346										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/30/14 DPT0278 (BT)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0854	0278	26-30	7.03	0.838	–	0.15	27.04	0.040	0.531	-70.0	cloudy gray
0856	↓	↓	6.91	0.819	–	0.18	26.39	0.039	0.521	-72.5	↓
0858	↓	↓	6.84	0.809	–	0.19	26.02	0.039	0.517	-73.2	↓
	Sampled at 0859										
0910	0278	31-35	6.87	0.957	–	0.07	27.89	0.043	0.580	-130.8	cloudy
0912	↓	↓	6.92	0.964	–	0.06	27.53	0.045	0.598	-147.6	↓
0914	↓	↓	6.93	0.958	–	0.07	27.20	0.045	0.598	-165.8	↓
	Sampled at 0915						(D)				
0928	0278	36-40	6.97	1099	–	0.12	28.14	0.051	0.679	-157.4	cloudy
0930	↓	↓	6.96	1.080	–	0.09	27.31	0.051	0.674	-161.3	↓
0932	↓	↓	6.94	1.073	–	0.09	27.06	0.051	0.672	-162.6	↓
	Sampled at 0933										
0944	0278	41-45	7.00	1.106	–	0.09	28.64	0.051	0.671	-166.2	murky gray
0946	↓	↓	6.98	1.105	–	0.08 (D)	28.11	0.051	0.679	-170.2	↓
0948	↓	↓	6.95	1.099	–	0.06	27.81	0.051	0.680	-167.7	cloudy gray
	Sampled at 0949										
1002	~~0946~~ 0278 (D)	46-50	7.03	1.082	–	0.06	28.33	0.050	0.662	-156.5	cloudy
1004	0278	↓	6.99	1.090	–	0.06	28.49	0.050	0.663	-155.3	↓
1006	↓	↓	6.95	1.079	–	0.08	27.95	0.050	0.666	-142.5	↓
	Sampled at 1007										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/30/14 DPT0277 (BV)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at 0277										
0724	~~0278~~	36-40	6.87	0.764	–	0.17	24.51	0.037	0.498	-161.5	cloudy gray
0726	↓	↓	6.89	0.764	–	0.13	24.85	0.037	0.498	-175.3	↓
0728	↓	↓	6.90	0.759	–	0.11	24.84	0.037	0.495	-182.7	↓
	Sampled at 0729										
0741	~~0278~~ 0277	41-45	6.93	0.807	–	0.17	24.58	0.039	0.520	-364.5	cloudy gray
0743	↓	↓	6.92	0.819	–	0.17	24.88	0.040	0.535	-394.5	↓
0745	↓	↓	7.01	0.805	–	0.18	24.81	0.040	0.527	-378.8	↓
	Sampled at 0746										
0800	0277	46-50	7.08	0.953	–	0.20	25.15	0.044	0.611	-149.6	cloudy tan/gray
0802	↓	↓	7.08	0.973	–	0.15	25.11	0.048	0.631	-145.5	↓
0804	↓	↓	7.06	0.970	–	0.16	24.98	0.048	0.632	-140.7	↓
	Sampled at 0805										
0820	0277	56-60	6.96	3.082	–	0.06	25.49	0.144	1.863	-186.4	milky gray-brown
0822	↓	↓	7.01	3.242	–	0.06	25.39	0.166	2.082	-190.0	↓
0824	↓	↓	7.05	3.272	–	0.06	25.33	0.169	2.112	-192.4	cloudy brown
	Sampled at 0825										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM (ES) Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/29/14 DPT ~~0280~~ 0276 (J)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1410	0276	31-35	7.29	1.324	–	0.15	33.21	0.058	0.763	-226.7	cloudy
1412	↓	↓	7.20	1.216	–	0.15	32.62	0.052	0.695	-370.2	↓
1414	↓	↓	7.16	1.197	–	0.18	32.19	0.051	0.686	-433.1	↓
	Sampled at 1415										
1427	0276	36-40	7.10	1.353	–	0.42	32.29	0.060	0.774	-564.7	gray cloudy
1429	↓	↓	7.13	1.309	–	0.03	32.75	0.056	0.745	-570.5	↓
1431	↓	↓	7.14	1.287	–	0.04	32.69	0.055	0.732	-574.1	↓
	Sampled at 1432										
1448	0276	41-45	7.17	1.392	–	0.02	33.14	0.058	0.780	-589.0	gray cloudy
1450	↓	↓	7.17	1.352	–	0.02	32.89	0.058	0.766	-590.0	↓
1452	↓	↓	7.18	1.332	–	0.04	32.32	0.057	0.761	-590.9	↓
	Sampled at 1453										
1507	0276	46-50	7.22	1.417	–	0.03	31.84	0.062	0.818	-596.2	gray cloudy
1509	↓	↓	7.22	1.399	–	0.02	31.90	0.061	0.807	-596.4	↓
1511	↓	↓	7.23	1.380	–	0.01	31.89	0.060	0.796	-596.7	↓
	Sampled at 1512										
(ES) 1535	0276	56-60	7.28	1.333	–	0.05	32.26	0.057	0.760	-602.2	cloudy
1537	↓	↓	7.29	1.297	–	0.07	31.88	0.057	0.750	-602.7	↓
1539	↓	↓	7.30	1.277	–	0.08	31.34	0.056	0.742	-603.3	↓
(ES) ~~1541~~	Sampled at 1540										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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ft BLS = feet below land surface

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM (05) Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/29/14 DPT0275 (K)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1234	0275	36-40	7.40	1.889	–	0.21	32.49	0.086	1.117	-501.4	cloudy
1234	↓	↓	7.37	1.676	–	0.15	31.87	0.074	0.973	-526.9	↓
1238	↓	↓	7.35	1.614	–	0.16	31.72	0.071	0.936	-537.6	↓
	Sampled at 1239										
1257	0275	41-45	7.29	1.539	–	0.10	31.27	0.069	0.899	-570.5	cloudy
1259	↓	↓	7.29	1.518	–	0.05	31.35	0.067	0.882	-571.6	↓
1301	↓	↓	7.29	1.494	–	0.04	31.41	0.066	0.864	-572.3	↓
	Sampled at 1302										
1315	0275	46-50	7.31	1.515	–	0.06	29.66	0.069	0.908	-581.8	milky gray
1317	↓	↓	7.32	1.498	–	0.03	29.48	0.069	0.901	-582.5	↓
1319	↓	↓	7.32	1.481	–	0.03	29.44	0.068	0.885	-582.9	↓
	Sampled at										
1337	0275	56-60	7.31	1.242	–	0.01	30.45	0.055	0.731	-588.9	cloudy
1339	↓	↓	7.31	1.234	–	0.01	30.46	0.055	0.728	-589.3	↓
1341	↓	↓	7.32	1.224	–	0.01	30.33	0.055	0.723	-589.5	↓
	Sampled at 1342										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

Notes:

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Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/29/14 DPT0274 (CL)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
—	0274	31-35	Could not generate enough water volume		–						
—	↓	↓	to collect readings - would not pump to surface		–						
—	↓	↓			–						
	Sampled at 0944										(CS)
0957	0274	36-40	7.14	1.558	–	0.13	32.74	0.068	0.891	-508.2	cloudy
0959	↓	↓	7.14	1.522	–	0.09	31.65	0.067	0.881	-514.0	↓
1001	↓	↓	7.14	1.494	–	0.09	30.13	0.068	0.887	-532.6	↓
	Sampled at 1002										
1017	0274	41-45	7.18	2.050	–	0.01	30.16	0.092	1.198	-565.3	cloudy
1019	↓	↓	7.18	1.990	–	0.02	30.83	0.090	1.169	-567.1	↓
1021	↓	↓	7.18	1.937	–	0.03	30.37	0.089	1.148	-568.5	↓
	Sampled at 1022										
1037	0274	46-50	7.20	1.967	–	0.02	30.58	0.090	1.166	-579.7	cloudy + oil
1039	↓	↓	7.20	1.900	–	0.01	31.06	0.086	1.111	-580.6	↓
1041	↓	↓	7.20	1.855	–	0.02	31.00	0083	1.085	-581.1	↓
	Sampled at 1042										
1127	0274	56-60	7.22	2.105	–	0.04	34.39	0.089	1.162	-556.7	cloudy
1129	↓	↓	7.22	2.097	–	0.05	33.94	0.090	1.169	-562.9	↓
1131	↓	↓	7.23	2.075	–	0.06	32.95	0.090	1.175	-568.1	↓
	Sampled at 1132										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/29/14 DPT0227

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		36-40			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		41-45			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0901	0227	46-50	7.52	2.318	–	0.70	29.23	0.108	1.388	-127.0	cloudy grey
0903	↓	↓	7.32	2.349	–	0.09	29.07	0.110	1.415	-131.1	↓
0905	↓	↓	7.23	2.343	–	0.08	28.82	0.111	1.421	-130.8	↓
	Sampled at 0906										
		56-60			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		61-65			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										

tes:

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/29/14 DPT0273 (0)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
0724	0273	36-40	7.03	1.531	–	0.38	26.56	0.074	0.964	-94.4	cloudy
0726	↓	↓	6.85	1.486	–	0.22	26.20	0.072	0.942	-108.7	↓
0728	↓	↓	6.79	1.472	–	0.20	25.54	0.072	0.939	-109.3	↓
	Sampled at 0729			2.009							
0743	0273	41-45	7.00	~~1.256~~	–	0.07	26.92	0.096	1.241	-169.3	cloudy grey
0745	↓	↓	7.03	2.061	–	0.05	27.21	0.100	1.285	-175.9	↓
0747	↓	↓	7.03	2.060	–	0.05	26.98	0.101	1.291	-177.5	↓
	Sampled at 0748										
0804	0273	46-50	7.10	2.355	–	0.04	27.50	0.114	1.459	-228.4	milky grey
0806	↓	↓	7.09	2.366	–	0.04	26.88	0.117	1.486	-220.4	↓
0808	↓	↓	7.06	2.363	–	0.03	24.66	0.117	1.490	-212.2	↓
	Sampled at 0809										
0823	0273	56-60	7.10	3.510	–	0.35	27.26	0.168	2.140	-231.9	milky grey
0825	↓	↓	7.14	3.567	–	0.04	26.73	0.180	2.242	-231.2	↓
0827	↓	↓	7.13	3.584	–	0.03	26.50	0.182	2.245	-223.8	↓
	Sampled at 0828										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/28/14 DPT0272 (P)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
		↓ ↓			–						
					–						
	Sampled at										
		16-20			–						
		↓ ↓			–						
					–						
	Sampled at										
		21-25			–						
		↓ ↓			–						
					–						
	Sampled at										
		26-30			–						
		↓ ↓			–						
					–						
	Sampled at										
		31-35			–						
		↓ ↓			–						
					–						
	Sampled at										
1618	0272	36-40	7.20	2.079	–	0.09	31.85	0.095	1.232	-129.0	cloudy grey
1620		↓ ↓	7.15	2.027	–	0.08	29.94	0.094	1.213	-133.0	silty cloudy ↓
1622			7.07	1.954	–	0.08	29.48	0.092	1.181	-134.8	
	Sampled at	1623									
1637	0272	41-45	7.05	2.277	–	1.68	32.22	0.103	1.345	-137.2	cloudy grey brown
1639		↓ ↓	7.13	2.461	–	0.16	31.54	0.110	1.421	-153.3	↓
1641			7.13	2.446	–	0.07	31.37	0.110	1.419	-160.1	
	Sampled at	1642									
1656	0272	46-50	7.16	2.369	–	0.01	32.59	0.104	1.351	-252.1	slightly cloudy
1658		↓ ↓	7.15	2.348	–	0.01	31.47	0.106	1.365	-268.1	↓
1700			7.15	2.348	–	0.00	30.77	0.107	1.375	-285.1	
	Sampled at	1701									
1740	0272	56-60	7.17	3.633	–	0.01	28.04	0.180	2.242	-603.1	milky grey
1742		↓ ↓	7.17	3.593	–	0.02	27.55	0.179	2.234	-603.5	cloudy ↓
1744			7.17	3.581	–	0.03	27.29	0.179	2.234	-604.5	↓
	Sampled at	1745									
		61-65			–						
		↓ ↓			–						
	Sampled at										
					–						
		↓ ↓			–						
	Sampled at										

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/28/14 DPT 0271 (N)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
1446	0271	36-40	7.21	2.161	–	0.06	29.99	0.098	1.247	-543.5	cloudy
1448	↓	↓	7.21	1.921	–	0.02	29.77	0.088	1.133	-548.3	↓
1450	↓	↓	7.21	1.818	–	0.00	29.50	0.085	1.096	-551.2	↓
	Sampled at 1451								1.130		
1504	0271	41-45	7.25	1.873	–	0.18	29.06	0.087	[illegible]	-571.3	brown cloudy
1506	↓	↓	7.25	1.815	–	0.00	29.39	0.085	1.063	-572.8	↓
1508	↓	↓	7.25	1.785	–	0.00	29.95	0.081	1.051	-573.1	↓
	Sampled at 1509										
1523	0271	46-50	7.23	1.687	–	0.01	31.55	0.075	0.973	-581.5	milky brown
1525	↓	↓	7.22	1.666	–	0.00	31.41	0.072	0.936	-582.0	↓
1527	↓	↓	7.21	1.540	–	0.01	31.27	0.068	0.896	-582.7	↓
(CS)	Sampled at 1528								CS		
1544	0271	56-60	7.17	2.336	–	0.00	31.66	0.105	1.348	-590.5	gray milky
(CS) 1546	↓	↓	7.17	2.310	–	0.01	31.59	0.104	1.336	-594.6	↓
(CS) 1548	↓	(CS) ↓	7.17	2.282	–	0.03	31.48	0.103	1.323	-596.2	↓
	Sampled at 1549										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

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TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/28/14 DPT 0270 (m)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		16-20			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		21-25			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		26-30			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
		31-35			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
1251	0270	36-40	7.04	1.522	—	0.06	31.03	0.067	0.890	-183.0	light brown cloudy
1253	↓	↓	6.89	1.455	—	0.07	29.92	0.066	0.867	-188.0	↓
1255	↓	↓	6.85	1.417	—	0.08	29.29	0.065	0.854	-193.3	↓
	Sampled at 1256										
1340	0270	41-45	6.96	1.863	—	0.33	33.59	0.079	1.039	-184.1	cloudy gray
1342	↓	↓	6.96	1.855	—	0.10	32.41	0.080	1.053	-217.5	↓
1344	↓	↓	6.93	1.841	—	0.08	31.72	0.082	1.064	-242.5	cloudy
	Sampled at 1345										
1400	0270	46-50	6.99	1.922	—	0.03	29.68	0.088	1.145	-319.3	cloudy gray
1402	↓	↓	7.02	1.916	—	0.09	28.82	0.090	1.163	-445.0	↓
1404	↓	↓	7.02	1.910	—	0.08	28.62	0.090	1.163	-464.0	↓
	Sampled at 1405										
1422	0270	56-60	7.16	3.280	—	0.08	29.89	0.158	2.000	-549.6	brown cloudy
1424	↓	↓	7.22	3.447	—	0.03	29.72	0.164	2.057	-549.5	↓
1426	↓	↓	7.22	3.453	—	0.04	29.42	0.165	2.068	-552.1	↓
	Sampled at 1427										
		61-65			—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										
					—						
	↓	↓			—						
	↓	↓			—						
	Sampled at										

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: CRHE / FR1681 / 31*1 (ULR)

Date: 05/28/14 DPT0269 (9)

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
		8-12			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		16-20			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		21-25			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		26-30			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at										
		31-35			–						
	↓	↓			–						
	↓	↓			–						
	Sampled at			1.744							Slightly cloudy
1046	0269	36-40	7.02	~~1.667~~	–	0.02	29.44	0.082	1.063	-349.1	↓
1048	↓	↓	6.99	1.726	–	0.05	28.88	0.081	1.048	-382.1	↓
1050	↓	↓	6.95	1.692	–	0.08	28.41	0.081	1.035	-353.1	↓
	Sampled at 1051										
1103	0269	41-45	6.99	1.998	–	0.02	30.10	0.090	1.175	-379.0	cloudy brown
1105	↓	↓	7.01	2.018	–	0.01	29.96	0.092	1.197	-425.2	↓
1107	↓	↓	7.02	2.034	–	0.01	29.70	0.094	1.214	-435.5	slightly cloudy
	Sampled at 1108										
1117	0269	46-50	7.09	2.035	–	0.09	29.70	0.093	1.203	-253.2	cloudy gray
1119	↓	↓	7.10	2.028	–	0.02	29.94	0.093	1.208	-278.9	↓
1121	↓	↓	7.10	2.020	–	0.01	29.59	0.093	1.208	-336.9	↓
	Sampled at 1122					(2)					
1136	0269	56-60	7.11	2.233	–	0.37	29.26	0.104	1.337	-585.1	cloudy gray
(3) ~~1138~~ ~~1140~~	↓	↓	Insufficient water volume for additional readings		–						
	Sampled at 1141										
		61-65			–						
	↓	↓			–						
	Sampled at										
					–						
	↓	↓			–						
	Sampled at										

Notes:

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/18/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
9:45	314(AI)	36-40	6.55	2.017	NM	1.11	25.03	1.03	1.321	-91.5	
9:47	314(AI)	36-40	6.39	2.069	NM	1.07	24.32	1.05	1.346	-103.6	
9:49	314(AI)	36-40	6.36	2.074	NM	.64	23.96	1.06	1.348	-108.2	
9:50	314(AI)		Sampled								
10:12	314(AI)	41-45	6.94	2.326	NM	0.34	24.75	1.20	1.530	-162.6	
10:14	314(AI)	41-45	6.93	2.410	NM	1.01	24.42	1.24	1.568	-136.0	
10:15	314(AI)	41-45	6.65	2.409	NM	0.37	24.18	1.24	1.565	-131.3	
10:16	314(AI)		Sampled								
	314(AI)	46-50									
	314(AI)	46-50	No Parameters Run								
	314(AI)	46-50									
10:50	Sampled										
11:09	314(AI)	56-60	7.34	3.545	NM	0.27	24.67	1.66	2.306	-150.8	
11:10	314(AI)	56-60	7.31	3.568	NM	0.31	24.30	1.68	2.328	-145.3	
11:12	314(AI)	56-60	7.21	3.621	NM	0.56	24.15	1.9	2.354	-134.1	
11:13	314(AI)	56-60		Sampled							
11:59	315(AO)	36-40	8.00	2.097	NM	0.73	26.43	1.08	1.379	-90.2	
12:00	315(AO)	36-40	7.63	2.166	NM	0.70	25.48	1.10	1.461	-76.5	
12:02	315(AO)	36-40	7.27	2.142	NM	0.59	25.96	1.09	1.392	-82.0	
12:03	315(AO)			Sampled				1.09			
12:24	315(AO)	41-45	7.34	2.136	NM	0.32	26.21	1.08	1.382	-115.1	
12:25	315(AO)	41-45	7.21	2.146	NM	0.23	25.81	1.09	1.392	-107.9	
12:26	315(AO)	41-45	7.11	2.182	NM	0.23	25.72	1.11	1.418	-106.2	
12:27	315(AO)	41-45									

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 6/25/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1500	336(AW)	56-60	6.95	2.424	NM	0.09	31.59	1.51	1.915	-178.1	
1502	336(AW)	56-60	7.04	2.411	NM	0.09	31.35	1.56	1.967	-175.3	
1504	336(AW)	56-60	7.06	3.054	NM	0.09	31.16	1.58	2.002	-176.2	
1506				Sampled							
1606	337(AX)	31-35	7.66	1.388	NM	0.23	29.66	0.69	0.899	-77.1	
1607	337(AX)	31-35	7.52	1.380	NM	0.21	29.38	0.68	0.895	-79.2	
1608	337(AX)	31-35	7.08	1.375	NM	0.20	29.21	0.68	0.893	-81.6	
1609				Sampled							
1625	337(AX)	36-40	7.14	1.591	NM	0.13	29.12	0.80	1.037	-165.4	
1626	337(AX)	36-40	7.13	1.600	NM	0.13	28.88	0.80	1.041	-166.4	
1627	337(AX)	36-40	7.09	1.608	NM	0.13	28.70	0.81	1.047	-165.7	
1628				~~1638~~		Sampled		0.96			
742	337(AX)	41-45	8.89	1.90	NM	0.44	26.32	~~1.235~~ 0.96	1.235	-72.1	
743	337(AX)	41-45	8.75	1.897	NM	0.43	26.34	1.234	1.234	-74.2	
744	337(AX)	41-45	8.58	1.898	NM	0.40	26.38	0.96	1.233	-76.3	
745				Sampled							
801	337(AX)	46-50	6.97	2.081	NM	0.25	26.33	1.06	1.361	-113.4	
805	337(AX)	46-50	6.87	2.100	NM	0.24	26.20	1.07	1.371	-114.2	
806	337(AX)	46-50	6.85	2.125	NM	0.24	26.05	1.04	1.384	-113.9	
807				Sampled							
826	337(AX)	56-60	6.56	3.009	NM	0.19	26.46	1.57	1.972	-136.3	
829	337(AX)	56-60	6.54	3.061	NM	0.20	26.31	1.60	2.007	-137.6	
830	337(AX)	56-60	6.45	3.104	NM	0.19	26.26	1.62	2.028	-139.8	
831											
903	338(BE)	26-30	7.71	1.390	NM	0.42	28.61	0.69	0.902	-69.2	
904	338(BE)	26-30	7.62	1.386	NM	0.38	28.56	0.69	0.899	-73.4	
905	338(BE)	26-30	7.53	1.342	NM	0.34	28.47	0.69	0.898	-76.9	
906				Sampled							
922	338(BE)	31-35	6.74	1.390	NM	0.19	28.15	0.69	0.903	-134.0	
923	338(BE)	31-35	6.75	1.388	NM	0.19	28.01	0.69	0.902	-134.7	
924	338(BE)	31-35	6.74	1.396	NM	0.19	27.92	0.69	0.901	-135.7	
925				Sampled							

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/23/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1129	335(AQ)	41-45	7.13	1.457	NM	0.19	29.46	0.73	0.949	-168.8	
1130	335(AQ)	41-45	7.12	1.463	NM	0.19	28.29	0.73	0.951	-165.4	
1131	335(AQ)	41-45	7.05	1.464	NM	0.16	27.52	0.73	0.952	-164.3	
1132				Sampled							
1163	335(AQ)	46-50	7.19	0.964	NM	0.23	29.42	0.46	0.565	-192.1	
1154	335(AQ)	46-50	7.15	0.842	NM	0.21	29.31	0.40	0.538	-191.5	
1165	335(AQ)	46-50	7.09	0.815	NM	0.19	29.15	0.40	0.529	-190.1	
1150				Sampled							
1217	335(AQ)	56-60	7.16	1.494	NM	0.32	29.12	0.79	0.837	-208.6	
1218	335(AQ)	56-60	7.14	1.181	NM	0.27	29.00	0.84	1.115	-208.1	
1219	335(AQ)	56-60	7.17	1.689	NM	0.24	28.71	0.70	0.914	-206.8	
1220				Sampled							
1211	336(AW)	26-30	7.21	1.263	NM	0.32	29.16	0.62	0.820	-145.1	
1212	336(AW)	26-30	7.11	1.258	NM	0.26	28.94	0.62	0.816	-141.1	
1213	336(AW)	26-30	6.82	1.250	NM	0.25	28.80	0.62	0.812	-135.0	
1214				Sampled							
[illegible]	336(AW)	[illegible]	[illegible]	[illegible]	NM	0.15	31.69	0.67	0.878	-184.8	
[illegible]	336(AW)	[illegible]	[illegible]	[illegible]	NM	0.14	31.29	0.67	0.885	-185.2	
[illegible]	336(AW)	[illegible]	[illegible]	[illegible]	NM	[illegible]	31.09	0.68	0.889	-183.9	
[illegible]				Sampled							
1249	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.77	[illegible]	-205.0	
1305	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.79	1.035	-202.9	
1320	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.82	1.064	-200.8	
[illegible]				Sampled							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.486	-200.4	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.87	-197.0	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.86	-193.3	
[illegible]				Sampled							
1430	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.235	-116.1	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.244	-113.2	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.256	-111.7	
[illegible]				Sampled							

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/21/14 & 8/22/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1614	CS314	11-45	6.93	0.930	NM	0.48	27.30	0.44	0.589	-93.5	
1615	CS314	11-45	6.79	0.874	NM	0.40	27.16	0.42	0.559	-96.6	
1616	CS314	11-45	6.72	0.825	NM	0.35	27.06	0.39	0.538	-98.6	
1617				Sampled							
7:58	334(AR)	31-35	9.05	1.181	NM	0.66	25.75	0.58	0.767	-109.9	
7:59	334(AR)	31-35	8.90	1.174	NM	0.61	25.73	0.58	0.764	-110.3	
8:00	334(AR)	31-35	9.62	1.170	NM	0.55	25.64	0.58	0.759	-69.5	
801				Sampled							
8:21	334(AR)	36-40	6.96	1.464	NM	0.34	26.61	0.73	0.951	-137.5	
8:22	334(AR)	36-40	7.06	1.473	NM	0.31	26.59	0.74	0.962	-139.8	
8:23	334(AR)	36-40	7.11	1.504	NM	0.30	26.46	0.75	0.981	-142.7	
824				Sampled							
9:14	334(AR)	41-45	7.19	1.164	NM	0.19	28.41	0.57	0.745	-162.0	
915	334(AR)	41-45	7.14	1.120	NM	0.18	28.52	0.55	0.724	-163.0	
9:16	334(AR)	41-45	7.02	0.920	NM	0.16	28.44	0.47	0623	-161.5	
917				Sampled							
[illegible]	[illegible]	46-50	7.16	[illegible]	0.74	0.41	28.69	0.52	0.695	-193.9	
936	[illegible]	[illegible]	[illegible]	[illegible]	NM	0.14	28.44	0.53	0.720	-194.2	
937	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.15	28.15	0.56	0.748	-191.1	
938											
10:00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.75	0.71	0.935	-207.9	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28.42	0.72	0.940	-208.9	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		0.57	0.757	-78.0	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	0.754	-78.4	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			0.753	-79.1	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	0.806	-132.5	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	0.809	-128.9	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			0.809	-124.9	

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ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 6/22/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1221	332(OK)	41-45	7.13	0.619	NM	0.16	27.17	0.23	0.321	-229.8	
1222	332(OK)	41-45	7.02	0.454	NM	0.16	27.14	0.21	0.291	-225.6	
1223	332(OK)	41-45	6.85	0.440	NM	0.14	27.44	0.21	0.284	-222.0	
1224				Sampled							
1247	332(OK)	46-50	7.15	0.659	NM	0.22	26.86	0.32	0.428	-232.6	
1246	332(OK)	46-50	7.13	0.556	NM	0.21	27.25	0.27	0.360	-230.8	
1249	332(OK)	46-50	7.05	0.552	NM	0.21	27.62	0.27	0.360	-227.8	
1250				Sampled							
	332(OK)	56-60									
	332(OK)	56-60		No	Parameters	Measured					
	332(OK)	56-60									
1319				Sampled							
1410	333(OB)	26-30	6.10	0.744	NM	0.68	25.49	0.38	0.509	-42.5	
1411	333(OB)	26-30	5.43	0.760	NM	0.60	25.26	0.38	0.506	-42.9	
1412	333(OB)	26-30	5.73	0.777	NM	0.56	25.21	0.38	0.504	-40.4	
1413				Sampled							
1430	333(OB)	36-40	6.33	0.893	NM	0.24	27.40	0.44	0.540	-103.9	
1431	333(OB)	36-40	6.61	0.893	NM	0.22	27.16	0.44	0.579	-117.9	
1432	333(OB)	36-40	6.65	0.889	NM	0.23	27.10	0.43	0.576	-121.8	
1433				Sampled							
1451	333(OB)	41-45	7.01	1.031	NM	0.22	27.33	0.51	0.675	-152.9	
1452	333(OB)	41-45	7.09	1.043	NM	0.20	27.13	0.51	0.680	-153.4	
1453	333(OB)	41-45	7.08	1.049	NM	0.20	27.01	0.52	0.683	-153.7	
1454				Sampled							
1514	333(OB)	46-50	6.91	1.372	NM	0.21	26.46	0.68	0.893	-172.9	
1515	333(OB)	46-50	6.95	1.378	NM	0.14	26.32	0.69	0.899	-173.0	
1516	333(OB)	46-50	6.93	1.388	NM	0.16	26.23	0.69	0.905	-172.0	
1517				Sampled							
1535	333(OB)	56-60	7.01	2.303	NM	0.14	26.95	1.19	1.520	-197.6	
1536	333(OB)	56-60	7.04	2.378	NM	0.14	26.40	1.22	1.526	-199.2	
1537	333(OB)	56-60	7.12	2.425	NM	0.14	26.63	1.21	1.508	-200.0	
1538				Sampled							

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 6/22/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
8:56	331(DE)	31-35	7.67	1.225	NM	0.52	25.21	0.6 0.745	0.795	-94.6	
8:57	331(DE)	31-35	7.37	1.202	NM	0.57	25.06	0.58	0.755	-99.8	
8:58	331(DE)	31-35	7.18	1.111	NM	0.49	25.01	0.53	0.676	-104.4	
4:59				Sampled							
9:21	331(DE)	36-40	6.81	1.111	NM	0.24	25.91	0.57	0.751	-182.9	
9:22	331(DE)	36-40	6.90	1.054	NM	0.29	25.85	0.51	0.667	-146.3	
923	331(DE)	36-40	6.90	1.003	NM	0.26	25.80	0.51	0.648	-187.3	
9:24				Sampled							
9:53	331(DE)	41-45	6.87	0.460	NM	0.59	25.56	0.22	0.300	-204.7	
9:54	331(DE)	41-45	6.81	0.446	NM	0.49	25.61	0.21	0.286	-208.6	
9:55	331(DE)	41-45	6.75	0.430	NM	0.39	25.14	0.20	0.279	-202.4	
9:56				Sampled							
10:17	331(DE)	46-50	7.03	0.392	NM	0.20	26.57	0.19	0.254	-217.9	
10:18	331(DE)	46-50	7.07	0.391	NM	0.18	26.61	0.19	0.254	-218.8	
10:19	331(DE)	46-50	7.09	0.390	NM	0.19	26.62	0.19	0.253	-219.7	
10:20			Sampled								
10:41	331(DE)	56-60	7.17	0.363	NM	0.13	28.22	0.17	0.236	-227.4	
10:42	331(DE)	56-60	7.16	0.363	NM	0.13	27.94	0.17	0.236	-227.7	
10:43	331(DE)	56-60	7.19	0.363	NM	0.13	27.76	0.17	0.236	-227.7	
10:44			Sampled								
1127	332(ok)	31-35	6.40	0.977	NM	0.57	26.70	OAK	0.643	-90.7	
1128	332(ok)	31-35	6.67	0.969	NM	0.50	26.51	0.46	0.611	-93.1	
1129	332(ok)	31-35	6.54	1.042	NM	0.45	26.33	0.64	0.435	-95.8	
1130				Sampled							
1147	332(ok)	36-40	6.95	1.337	NM	0.23	27.04	0.67	0.674	-198.4	
1148	332(ok)	36-40	6.96	1.334	NM	0.23	26.95	0.66	0.864	-199.8	
1149	332(ok)	36-40	6.94	1.327	NM	0.23	26.82	0.65	0.854	-201.2	
1150				Sampled							

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DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681

Date: 8/21/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1504	330(cc)	36-40	7.8	1.473	NM	0.21	29.45	0.73	0.954	-80.7	
1509	330(cc)	36-40	7.7	1.463	NM	0.22	29.33	0.73	0.947	-80.9	
1510	330(cc)	36-40	7.54	1.452	NM	0.22	29.19	0.72	0.942	-81.9	
1511				Sampled							
1529	330(cc)	41-45	7.40	1.761	NM	0.15	30.44	0.91	1.179	-145.1	
1530	330(cc)	41-45	7.43	1.868	NM	0.15	29.77	0.95	1.221	-147.5	
1531	330(cc)	41-45	7.38	1.909	NM	0.14	29.33	0.96	1.245	-147.1	
1532				Sampled							
1552	330(cc)	46-50	7.62	1.919	NM	0.14	30.12	0.97	1.247	-169.9	
1553	330(cc)	46-50	7.60	1.923	NM	0.14	29.88	0.97	1.251	-169.7	
1554	330(cc)	46-50	7.57	1.928	NM	0.14	29.60	0.97	1.254	-166.6	
1555				Sampled							
	330(cc)	51-55									
	330(cc)	51-55		No parameters Measured							
1627	330(cc)	51-55									
1634	330(cc)	56-60	7.64	2.538	NM	0.10	29.33	1.31	1.678	-190.5	
1635	330(cc)	56-60	7.54	2.650	NM	0.09	28.61	1.37	1.737	-185.5	
1636	330(cc)	56-60	7.46	2.686	NM	0.09	28.37	1.39	1.754	-184.8	
1637				Sampled							

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/21/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
11:38	326(CA)	51-55	7.65	0.475	NM	0.15	30.15	0.22	0.307	-147.5	
11:39	326(CA)	51-55	7.67	0.470	NM	0.15	30.18	0.22	0.304	-187.7	
11:40	326(CA)	51-55	7.64	0.462	NM	0.14	30.02	0.22	0.299	-186.0	
11:41				Sampled							
12:00	326(CA)	56-60	7.49	0.469	NM	0.11	30.38	0.21	0.313	-145.4	
12:01	326(CA)	56-60	7.59	0.485	NM	0.12	30.54	0.21	0.339	-190.6	
12:02	326(CA)	56-60	7.63	0.639	NM	0.11	30.56	0.32	0.449	-191.6	
13:01	329(BZ)	36-40	7.36	1.246	NM	0.21	30.21	0.61	0.807	-141.0	
1302	329(BZ)	36-40	7.01	1.176	NM	0.19	30.54	0.57	0.747	-111.3	
1303	329(BZ)	36-40	6.89	1.046	NM	0.14	30.53	0.49	0.651	-113.4	
1304				Sampled							
1323	329(BZ)	41-45	7.44	1.238	NM	0.16	29.44	0.61	0.806	-150.1	
1324	329(BZ)	41-45	7.42	1.237	NM	0.15	29.64	0.61	0.802	-148.9	
1325	329(BZ)	41-45	7.23	1.213	NM	0.13	29.86	0.60	0.787	-143.0	
1326				Sampled							
1345	329(BZ)	46-50	7.47	1.502	NM	0.17	28.77	0.75	0.978	-156.7	
1346	329(BZ)	46-50	7.40	1.504	NM	0.18	28.84	0.75	0.981	-151.4	
1347	329(BZ)	46-50	7.31	1.511	NM	0.16	28.88	0.75	0.982	-148.1	
1348				Sampled							
1404	329(BZ)	51-55	7.50	1.721	NM	0.33	28.74	0.86	1.117	-140.7	
1405	329(BZ)	51-55	7.42	1.715	NM	0.30	28.47	0.86	1.114	-135.5	
1406	329(BZ)	51-55	7.26	1.711	NM	0.29	28.41	0.86	1.111	-129.5	
1407				Sampled							
1426	329(BZ)	56-60	7.38	2.697	NM	0.14	29.25	1.42	1.805	-144.4	
1427	329(BZ)	56-60	7.37	2.827	NM	0.13	29.06	1.46	1.853	-146.9	
1428	329(BZ)	56-60	7.34	2.870	NM	0.12	28.93	1.6	1.876	-146.7	
1429				Sampled							

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/21/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
7:55	327(CB)	36-40	7.13	1.190	NM	0.51	26.89	0.59	0.771	-40.4	
7:58	327(CB)	36-40	7.01	1.193	NM	0.43	26.80	0.57	0.776	-63.5	
7:59	327(CB)	36-40	6.97	1.195	NM	0.37	26.76	0.59	0.778	-69.7	
7:58			Sampled								
8:21	327(CB)	41-45	7.13	1.788	NM	0.24	28.14	0.91	1.174	-106.8	
8:22	327(CB)	41-45	7.15	1.819	NM	0.20	27.98	0.92	1.187	-118.0	
8:23	327(CB)	41-45	7.14	1.848	NM	0.18	27.84	0.93	1.203	-129.4	
8:24				Sampled							
8:44	327(CB)	46-50	7.63	1.735	NM	0.16	27.68	0.88	1.137	-89.5	
8:45	327(CB)	46-50	7.66	1.759	NM	0.15	27.81	0.89	1.144	-96.8	
8:46	327(CB)	46-50	7.40	1.722	NM	0.14	27.71	0.84	1.082	-109.3	
8:47			Sampled								
	327(CB)	51-55									
	327(CB)	51-55	No Parameters Measured								
	327(CB)	51-55									
9:16				Sampled							
9:41	327(CB)	56-60	7.68	2.088	NM	0.20	31.15	1.06	1.372	-187.4	
9:43	327(CB)	56-60	7.66	2.163	NM	0.18	30.25	1.10	1.418	-186.1	
9:44	327(CB)	56-60	7.67	2.231	NM	0.17	29.38	1.15	1.468	-185.2	
9:45				Sampled							
10:25	328(CA)	36-40	7.93	1.152	NM	0.46	28.53	0.57	0.747	-75.3	
10:26	328(CA)	36-40	7.69	1.104	NM	0.41	28.52	0.56	0.745	-75.3	
10:27	328(CA)	36-40	7.46	1.144	NM	0.37	28.46	0.56	0.748	-75.8	
10:28				Sampled							
	328(CA)	41-45									
	328(CA)	41-45	No Parameters Measured								
	328(CA)	41-45									
10:56				Sampled							
11:13	328(CA)	46-50	7.62	1.274	NM	0.14	31.27	0.58	0.727	-173.8	
11:14	328(CA)	46-50	7.61	0.926	NM	0.12	30.96	0.42	0.525	-176.3	
11:15	328(CA)	46-50	7.56	0.514	NM	0.12	30.57	0.22	0.303	-177.3	
11:16			Sampled								

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/20/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1638	326(DE)	56-60	7.40	0.983	NM	0.07	30.16	0.47	0.625	-195.5	
1639	326(DE)	56-60	7.52	0.942	NM	0.07	30.21	0.46	0.607	-198.7	
1640	326(DE)	56-60	7.50	0.929	NM	0.07	30.22	0.45	0.601	-200.2	
1641				Sampled							

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DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681

Date: 8/20/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1347	325(cy)	36-40	8.26	0.971	NM	0.59	30.47	0.47	0.629	-89.9	
1348	325(cy)	36-40	7.54	0.965	NM	0.52	30.66	0.47	0.626	-78.4	
1349	325(cy)	36-40	6.72	0.961	NM	0.45	30.85	0.47	0.622	-76.1	
1350			Sampled								
1409	325(cy)	41-45	7.41	1.145	NM	0.13	30.76	0.57	0.755	-138.1	
1410	325(cy)	41-45	7.33	1.171	NM	0.12	30.36	0.58	0.77	-139.6	
1411	325(cy)	41-45	7.15	1.194	NM	0.12	30.28	0.59	0.781	-135.3	
1412				Sampled							
1432	325(cy)	46-50	7.50	1.947	NM	0.11	32.60	0.99	1.286	-119.1	
1435	325(cy)	46-50	7.57	1.996	NM	0.09	31.91	1.01	1.305	-130.5	
1436	325(cy)	46-50	7.50	2.023	NM	0.09	31.67	1.02	1.323	-135.8	
1437			Sampled								
1523	326(DC)	36-40	7.54	0.819	NM	0.21	32.59	0.39	0.52	-169.4	
1524	326(DC)	36-40	7.08	0.819	NM	0.16	32.48	0.39	0.516	-167.5	
1525	326(DC)	36-40	6.92	0.787	NM	0.15	32.27	~~0.59~~ 0.58	0.509	-161.5	
1526			Sampled								
1545	326(DC)	41-45	7.42	0.942	NM	0.42	32.21	0.46	0.620	-144.6	
1546	326(DC)	41-45	7.51	0.962	NM	0.31	31.96	0.47	0.627	-151.3	
1547	326(DC)	41-45	7.46	0.968	NM	0.27	31.94	0.47	0.629	-154.3	
1548			Sampled								
1611	326(DC)	46-50	7.24	1.530	NM	0.10	29.43	0.77	0.946		
1612	326(DC)	46-50	7.11	1.534	NM	0.09	29.17	0.80	1.017	-159.8	
1613	326(DC)	46-50	7.01	1.534	NM	0.09	29.07	0.45	0.529	-141.3	
1614				Sampled							

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DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/20/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
10:35	323(D)	46-50	7.57	1.774	NM	0.4	30.06	0.89	1.161	-187.3	
10:37	323(D)	46-50	7.47	1.487	NM	0.29	29.63	0.91	1.170	-176.8	
10:39	323(D)	46-50	7.32	1.765	NM	0.26	29.36	0.85	1.135	-166.3	
10:40			Sampled								
10:58	323(D)	56-60	7.34	3.066	NM	0.14	29.84	1.54	1.992	-160.4	
10:59	323(D)	56-60	7.41	3.073	NM	0.11	29.79	1.59	2.00	-166.5	
11:00	323(D)	56-60	7.47	3.082	NM	0.11	29.70	1.59	2004	-170.7	
11:01				Sampled							
11:50	324(E)	36-40	7.33	~~3.178~~	NM	0.76	31.63	0.48	0.645	-92.7	
11:52	324(E)	36-40	6.54	0.977	NM	0.56	30.74	0.48	0.634	-82.7	
11:54	324(E)	36-40	6.46	0.967	NM	0.48	29.99	0.47	0.627	-83.3	
11:55			Sampled								
12:15	324(E)	41-45	7.76	1.022	NM	0.39	31.04	0.49	0.644	-152.0	
12:17	324(E)	41-45	7.29	1.187	NM	0.34	30.47	0.59	0.775	-143.6	
12:19	324(E)	41-45	6.99	1.200	NM	0.30	30.3	0.59	0.777	-137.4	
12:20			Sampled								
12:35	324(E)	46-50	7.49	1.488	NM	0.13	32.24	0.74	0.974	-195.8	
12:37	324(E)	46-50	7.45	1.528	NM	0.12	32.04	0.76	0.994	-193.2	
12:39	324(E)	46-50	7.30	1.535	NM	0.11	31.95	0.76	0.998	-189.7	
12:46			Sampled								
1258	324(E)	56-60	7.49	2.807	NM	0.09	30.70	1.52	1.976	-190.1	
1300	324(E)	56-60	7.57	3.062	NM	0.09	29.46	1.58	1.990	-190.5	
1302	324(E)	56-60	7.32	3.019	NM	0.01	29.41	1.55	1.946	-176.5	
1303				Sampled							

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DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681

Date: 8/20/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
7:55	322(6)	36-40	8.25	0.765	NM	0.49	27.77	0.37	0.494	-73.5	
7:57	322(6)	36-40	7.89	0.749	NM	0.48	27.65	0.36	0.486	-72.2	
7:59	322(6)	36-40	7.67	0.744	NM	0.43	27.73	0.36	0.483	-77.3	
7:59			Sampled								
8:16	322(6)	41-45	7.28	1.381	NM	0.22	29.58	0.69	0.906	-143.8	
8:19	322(6)	41-45	7.46	1.426	NM	0.19	29.27	0.71	0.930	-151.0	
8:20	322(6)	41-45	7.58	1.422	NM	0.19	29.15	0.70	0.920	-151.8	
8:21			Sampled								
8:40	322(6)	46-50	7.33	2.140	NM	0.46	27.97	1.09	1.40	-169.0	
8:42	322(6)	46-50	7.28	2.170	NM	0.36	27.79	1.10	1.413	-155.3	
8:44	322(6)	46-50	7.16	2.145	NM	0.24	27.63	1.11	1.419	-146.4	
8:45			Sampled								
9:03	322(6)	56-60	7.74	3.122	NM	0.34	28.69	1.62	2.032	-67.7	
9:05	322(6)	56-60	7.68	3.152	NM	0.32	28.45	1.64	2.055	-78.5	
9:07	322(6)	56-60	7.60	3.201	NM	0.25	28.14	1.66	2.083	-90.9	
9:08			Sampled								
9:51	323(D)	36-40	6.30	1.162	NM	0.34	31.05	0.57	0.746	-83.6	
9:53	323(D)	36-40	7.71	1.127	NM	0.31	30.50	0.55	0.722	-80.0	
9:55	323(D)	36-40	7.34	1.108	NM	0.28	30.21	0.54	0.719	-80.2	
9:56			Sampled								
10:11	325(D)	41-45	7.30	1.533	NM	0.17	31.29	0.75	0.987	-159.7	
10:13	323(D)	41-45	7.47	1.542	NM	0.16	30.69	0.77	1.009	-163.2	
10:15	323(D)	41-45	7.41	1.584	NM	0.15	30.53	0.79	1.036	-163.4	
10:16				Sampled							

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Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1426	320(I)	45-50	6.46	1.922	NM	0.38	31.27	1.03	1.346	-108.6	
1427	320(I)	45-50	6.65	2.233	NM	0.13	29.47	1.13	1.446	-108.8	
1428	320(I)	45-50	6.74	2.262	NM	0.33	28.62	1.15	1.469	-101.8	
1429		Sampled									
1447	320(I)	56-60	7.02	2.451	NM	0.37	34.10	1.27	1.640	-95.1	
1448	320(I)	56-60	6.80	3.172	NM	0.24	29.52	1.65	2.073	-88.4	
1449	320(I)	56-60	6.69	3.104	NM	0.16	26.97	1.60	2.026	-96.8	
1450			Sampled								
	F										
1556	321(6)	36-40	7.20	0.964	NM	6.51	29.67	0.47	0.621	-123.6	
1557	321(6)	36-40	6.73	0.924	NM	0.18	30.42	0.46	0.609	-119.5	
1559	321(6)	36-40	5.97	0.943	NM	0.12	28.42	0.42	0.611	-83.1	
1600				Sampled				0.46			
	F										
1620	321(6)	44-45	6.37	1.683	NM	0.09	29.06	0.79	1.029	-101.1	
1622	321(6)	44-45	6.16	1.586	NM	0.08	28.66	0.79	1.030	-95.0	
1624	321(6)	44-45	6.10	1.582	NM	0.07	29.05	0.79	1.028	-93.5	
	F										
1641	321(6)	46-50	6.83	2.241	NM	0.10	30.35	1.13	1.446	-90.1	
1645	321(6)	46-50	6.75	2.268	NM	0.06	29.75	1.15	1.477	-108.4	
1647	321(6)	46-50	6.52	2.283	NM	0.05	29.38	1.16	1.487	-111.7	
1648											
	F							1.57			
1707	321(6)	56-60	6.65	2.910	NM	0.24	29.47	~~1.646~~	1.903	-148.1	
1709	321(6)	56-60	6.71	2.955	NM	0.12	29.12	1.53	1.925	-152.1	
1710	321(6)	56-60	6.67	2.969	NM	0.09	28.92	1.54	1.933	-151.2	
1711			Sampled								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR1681

Date: 8/19/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
11:54	319 (H)	36-40	6.50	1.013	NM	0.41	28.88	0.5	0.676	-67.4	
11:52	319(H)	36-40	6.10	1.044	NM	0.75	28.29	0.5	0.678	-66.7	
11:56	319(H)	36-40	6.01	1.033	NM	0.94	27.96	0.5	0.671	-63.6	
11:57			Sampled								
12:16	319(H)	41-45	6.38	1.205	NM	0.31	30.06	0.61	0.801	-95.3	
12:19	319(H)	41-45	6.51	1.269	NM	0.28	28.48	0.63	0.823	-96.1	
12:20	319(H)	41-45	6.85	1.271	NM	0.51	28.81	0.63	0.826	-90.2	
12:21			Sampled								
12:47	319(H)	46-50	6.72	1.448	NM	0.32	30.06	0.74	0.979	-126.1	
12:46	319(H)	46-50	6.64	1.584	NM	0.24	29.01	0.79	1.03	-116.9	
12:49	319(H)	46-50	6.50	1.578	NM	0.29	28.78	1.04	1.02	-112.1	
12:50			Sampled					0.78			
1307	319(H)	56-60	6.71	3.085	NM	29AM	30.68	1.62	2.036	-98.9	
1308	319(H)	56-60	6.70	3.146	NM	0.71	28.86	1.64	2.060	-102.9	
1309	319(H)	56-60	6.63	3.164	NM	0.61	28.50	1.65	2.063	-105.9	
1310			Sampled								
1345	320(I)	36-40	6.92	1.345	NM	.26	30.57	0.66	0.860	-145.3	
1347	320(I)	36-40	6.76	1.297	NM	0.13	29.48	0.61	0.842	-131.9	
1346	320(I)	36-40	6.61	1.359	NM	0.21	28.73	0.62	0.814	-119.9	
1349			Sampled								
1405	320(I)	41-45	6.78	1.689	NM	0.29	30.82	0.86	1.125	-117.8	
1406	320(I)	41-45	6.81	1.784	NM	0.62	29.01	0.91	1.174	-127.1	
1407	320(I)	41-45	6.62	1.807	NM	0.30	28.77	0.91	1.183	-116.1	
1408			Sampled								

Notes:

DPT = Direct Push Technology

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mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

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DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681

Date: 8/19/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
8:21	317(cp)	41-45	5.72	1.395	NM	1.0	23.84	0.7	0.907	-123	
8:22	317(cp)	41-45	5.67	1.386	NM	1.12	23.95	0.69	0.902	-28.8	
8:24	317(cp)	41-45	5.72	1.386	NM	0.85	23.87	0.69	0.9	-47.3	
8:25			Sampled								
	317(cp)	46-50									
	317(cp)	46-50	WQ parameters				Measured / Low Flow				
	317(cp)	46-50									
8:45			Sample		Collected						
9:06	317(cp)	56-60	6.42	3.243	NM	2.38	24.45	1.71	2.132	-107.8	
9:08	317(cp)	56-60	6.53	3.340	NM	1.53	24.25	1.75	2.172	-107.7	
9:10	317(cp)	56-60	6.55	3.362	NM	3.03	24.14	1.76	2.185	-98.6	
9:11		Sample	Collected								
9:52	318(cs)	31-35	7.18	1.388	NM	2.32	25.81	0.69	0.895	-103.3	
9:53	318(cs)	31-35	7.09	1.396	NM	1.57	25.23	0.69	0.885	-82.5	
9:54	318(cs)	31-35	6.64	1.352	NM	1.26	24.81	0.67	0.877	-70.9	
9:55											
10:16	318(cs)	36-40	6.50	1.335	NM	0.20	25.64	0.66	0.867	-119.9	
10:17	318(cs)	36-40	6.54	1.338	NM	0.36	25.33	0.66	0.86	-115.7	
10:18	318(cs)	36-40	6.54	1.338	NM	1.70	25.22	0.66	0.867	-104.9	
10:19											

Notes:

DPT = Direct Push Technology

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NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM

Project/Project Number: FR16 81

Date: 8/18/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
4:10	317(CP)	31-35	7.96	1.454	NM	1.60	28.05	0.73	0.947	-823	
4:12	317(CP)	31-35	7.19	1.454	NM	0.79	27.27	0.72	0.945	-1123	
4:15	317(CP)	31-35	7.27	1.464	NM	2.69	26.69	0.73	0.950	-496	
4:16			Sampled								
4:36	317(CP)	36-40	7.09	1.469	NM	1.72	25.65	0.73	0.954	-842	
4:37	317(CP)	36-40	7.07	1.462	NM	0.72	25.06	0.73	0.949	-684	
4:39	317(CP)	36-40	6.69	1.452	NM	0.42	24.94	0.73	0.942	-633	
4:40			Sampled								

Notes:
DPT = Direct Push Technology
ft BLS = feet below land surface
mS/cm = milliSiemens per centimeter (or millimhos per centimeter)
NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)
Temp (°C) = Temperature (degrees Celsius)
TDS (g/L) = Total Dissolved Solids (grams per liter)
ORP (mV) = Oxidation Reduction Potential (milliVolts)

DPT GEOCHEMICAL DATA FORM Project/Project Number: FR1681

Date: 8/18/14

Time	DPT Location	Screened Interval (ft BLS)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
12:15	315 (AO)	46-50									
	315(AO)	46-50		No Parameters Measured							
	315(AO)	46-50									
12:45	315(AO)		Sampled								
	315(AO)	56-60									
	315(AO)	56-60		No Parameters Measured							
	315(AO)	56-60									
1:13	315(AO)	56-60		Sampled							
1:47	316(AN)	36-40	7.66	1.530	NM	1.85	28.72	0.77	1.001	-100.5	
1:50	316(AN)	36-40	7.17	1.525	NM	1.11	28.80	0.76	0.99	-129.1	
1:52	316(AN)	36-40	7.10	1.524	NM	0.76	28.44	0.76	0.991	-139.8	
1:53			sampled								
2:17	316(AN)	41-45									
	316(AN)	41-45		No Parameters Measured							
	316(AN)	41-45									
2:30			Sampled								
2:57	316(AN)	46-50	7.45	2.270	NM	2.31	28.77	1.16	1.463	-75.2	
2:59	316(AN)	46-50	7.53	2.317	NM	0.80	27.63	1.19	1.511	-74.4	
3:01	316(AN)	46-50	7.24	2.388	NM	0.46	27.20	1.22	1.553	-77.8	
3:02			Sampled								
3:22	316(AN)	56-60	7.19	2.308	NM	0.22	28.26	1.16	1.471	-192.9	
3:25	316(AN)	56-60	7.29	3.533	NM	0.62	26.34	1.85	1.85	-143.3	
3:25	316(AN)	56-60	7.19	2.250	NM	0.33	27.18	1.13	1.439	-142.4	
3:26	316(AN)			Sampled							

Notes:

DPT = Direct Push Technology

ft BLS = feet below land surface

mS/cm = milliSiemens per centimeter (or millimhos per centimeter)

NTU = Nephelometric Turbidity Units

DO (mg/L) = Dissolved Oxygen (milligrams per liter)

Temp (°C) = Temperature (degrees Celsius)

TDS (g/L) = Total Dissolved Solids (grams per liter)

ORP (mV) = Oxidation Reduction Potential (milliVolts)

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/22/14 Sampler: M. Burcham

AA / DPT0340

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0950	0340	31-35	7.43	1.759	---	1.19	25.27	0.89	1.144	-374.9	grey
N/A	↓	↓	INSUFFICIENT VOLUME								
N/A	↓	↓									
0952	SAMPLED		CRHE - DPT0340 - 0.33 mB 35.0 - 20140922 @							0952	
1012	0340	36-40	7.45	2.241	---	0.92	26.11	1.15	1.458	-435.5	grey
1014	↓	↓	7.47	2.271	---	0.55	26.02	1.17	1.490	-499.7	" "
1016	↓	↓	7.36	2.324	---	0.54	25.78	1.19	1.514	-459.8	cloudy
1018	SAMPLED		CRHE - DPT0340 - 0.38 mB 40.0 - 20140922 @							1018	
1037	0340	41-45	7.45	2.186	---	0.20	26.03	1.12	1.430	-346.1	grey
1039	↓	↓	7.41	2.257	---	0.09	25.82	1.16	1.478	-454.2	grey
1041	↓	↓	7.36	2.294	---	0.08	25.73	1.18	1.494	-479.2	grey
	SAMPLED		CRHE - DPT0340 - 0.43 mB 45.0 - 20140922 @							1042	
1106	0340	46-50	7.54	2.709	---	0.25	26.43	1.40	1.767	-297.2	grey
1108	↓	↓	7.50	2.778	---	0.07	26.20	1.44	1.817	-431.5	grey
1110	↓	↓	7.47	2.839	---	0.06	25.97	1.47	1.853	-457.2	grey
	SAMPLED		CRHE - DPT0340 - 0.48 mB 50.0 - 20140922 @							1111	
1131	0340	56-60	7.65	3.928	---	0.06	27.19	2.08	2.576	-302.4	grey
1133	↓	↓	7.67	4.031	---	0.04	26.74	2.13	2.633	-343.4	grey
1135	↓	↓	7.65	4.094	---	0.05	26.54	2.17	2.670	-373.6	grey
	SAMPLED		CRHE - DPT0340 - 0.58 mB 60.0 - 20140922 @							1136	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/30/14 Sampler: M. Burcham

EC/DPT0357

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1249	0357	31-35	7.06	1.467	---	0.44	31.13	0.73	0.961	-200.1	grey
1251	↓	↓	7.18	1.495	---	0.17	30.37	0.74	0.974	-219.1	grey
1253	↓	↓	7.18	1.505	---	0.12	30.07	0.75	0.979	-222.0	grey/cloudy
	SAMPLED			CRHE-DPT0357-0330-20140930					@	1254	
	0357	36-40	7.44	1.305	---	0.08	30.44	0.66	0.866	-243.1	grey
1310	↓	↓	7.39	1.369	---	0.05	30.05	0.68	0.894	-245.2	grey
1312	↓	↓	7.36	1.388	---	0.05	29.89	0.69	0.905	-243.5	grey/cloudy
1314	SAMPLED			CRHE-DPT0357-0340-20140930					@	1315	
1344	0357	41-45	7.43	1.650	---	0.07	30.10	0.83	1.082	-246.5	grey
1346	↓	↓	7.41	1.685	---	0.04	29.80	0.85	1.099	-249.0	grey
1348	↓	↓	7.40	1.702	---	0.04	29.66	0.85	1.109	-255.2	grey/cloudy
	SAMPLED			CRHE-DPT0357-0430-20140930					@	1349	
1405	0357	46-50	7.42	1.655	---	0.23	30.05	0.85	1.109	-215.6	grey
1407	↓	↓	7.40	1.793	---	0.05	29.49	0.91	1.177	-222.4	grey
1409	↓	↓	7.38	1.857	---	0.04	29.30	0.94	1.213	-225.2	grey
	SAMPLED			CRHE-DPT0357-0480-20140930					@	1410	
1516	0357	51-55	7.38	2.340	---	0.21	30.34	1.20	1.536	-226.3	grey
1518	↓	↓	7.40	2.396	---	0.09	30.10	1.22	1.564	-232.3	grey
1520	↓	↓	7.39	2.432	---	0.09	29.86	1.25	1.589	-244.5	grey
	SAMPLED			CRHE-DPT0357-0530-20140930					@	1521	
1540	0357	56-60	7.46	3.984	---	0.17	29.57	2.11	2.622	-198.0	grey
1542	↓	↓	7.43	4.132	---	0.06	28.48	2.18	2.692	-201.3	grey/cloudy
1544	↓	↓	7.42	4.151	---	0.05	28.30	2.19	2.701	-201.2	grey/cloudy
	SAMPLED			CRHE-DPT0357-0580-20140930					@	1545	

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DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/30/14 Sampler: M. Burcham

EA/DPT0356

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0843	0356	31-35	6.83	1.117	---	0.29	25.81	0.55	0.731	-279.8	grey
0845	↓	↓	6.93	1.134	---	0.16	25.74	0.56	0.737	-315.9	grey/cloudy
0847	↓	↓	7.03	1.131	---	0.14	25.69	0.56	0.734	-327.5	" "
	SAMPLED			CRHE-DPT0356-0330-20140930					@	0848	
0903	0356	36-40	7.19	1.146	---	0.38	25.54	0.57	0.747	-381.6	grey
0905	↓	↓	7.19	1.163	---	0.13	25.55	0.58	0.759	-430.5	grey
0907	↓	↓	7.18	1.187	---	0.10	25.52	0.59	0.777	-448.9	cloudy grey
	SAMPLED			CRHE-DPT0356-0380-20140930					@	0910	
0936	0356	41-45	7.33	2.528	---	0.10	26.52	0.131	1.664	-332.4	grey
0938	↓	↓	7.32	2.628	---	0.07	26.48	1.36	1.720	-337.3	grey
0940	↓	↓	7.33	2.693	---	0.06	26.39	1.40	1.762	-223.8	grey
	SAMPLED				---					0941	
	0356	46-50	MB	CRHE-DPT0356-0430-20140930					@		
	↓	↓ MB			---						
	↓	↓			---						
	SAMPLED				---						
Following sample from leftovers in poly	0356	46-50	INSUFFICIENT VOLUME								
1017	↓	↓	7.53	3.152	---	0.11	22.22	1.64	2.048	-258.2	grey
	SAMPLED			CRHE-DPT0356-0480-20140930					@	1016	
1024	0356	51-55	7.49	4.202	---	1.25	26.44	2.23	2.745	-201.9	grey
1036	↓	↓	7.49	4.296	---	0.10	26.35	2.28	2.794	-213.9	grey/cloudy
1038	↓	↓	7.46	4.317	---	0.07	26.21	2.29	2.807	-202.6	cloudy
	SAMPLED			CRHE-DPT0356-0530-20140930					@	1039	
1059	0356	56-60	7.58	4.119	---	0.30	27.93	2.14	2.702	-174.3	grey
1101	↓	↓	7.58	4.252	---	0.11	26.94	2.26	2.775	-178.3	grey/cloudy
1103	↓	↓	7.55	4.319	---	0.08	26.70	2.29	2.810	-182.0	" "
	SAMPLED			CRHE-DPT0356-0580-20140930					@	1104	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1 EG/DPT0355

Date: 9/19/14 Sampler: M. Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1642	0355	31-35	7.38	1.260	---	0.23	26.81	0.82	0.802	-216.4	grey
1644	↓	↓	7.27	1.196	---	0.07	26.59	0.54	0.773	-223.5	grey
1646	↓	↓	7.23	1.175	---	0.06	26.57	0.58	0.762	-225.6	grey
	SAMPLED			CRHE-DPT-0355-0330-20140929					@	1647	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/29/14 Sampler: M. Burcham

ED/DPT0354

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1332	0354	31-35	7.54	1.655	---	0.09	28.52	0.84	1.082	-258.8	grey
1334	↓	↓	7.53	1.700	---	0.05	28.44	0.86	1.111	-269.0	grey
1336	↓	↓	7.51	1.726	---	0.04	28.26	0.87	1.125	-270.9	grey
	SAMPLED			CRHE-DPT0354-033.0-20140929					@	1337	
	0354	36-40	INSUFFICIENT VOLUME								
	↓	↓			---						
	SAMPLED			CRHE-DPT0354-038.0-20140929					@	1404	
	0354	41-45	7.53	1.860	---	0.07	27.62	0.94	1.212	-258.9	grey
	↓	↓	7.44	1.892	---	0.03	27.22	0.96	1.231	-261.7	grey/cloudy
	↓	↓	7.42	1.897	---	0.03	27.22	0.96	1.234	-261.9	" "
	SAMPLED			CRHE-DPT0354-043.0-20140929					@	1426	
	0354	46-50	7.52	2,122	---	0.04	27.86	1.09	1.393	-251.4	grey
	↓	↓	7.49	1.240	---	0.03	27.59	1.15	1.474	-267.0	grey
	↓	↓	7.47	2,319	---	0.03	27.48	1.19	1.515	-267.6	grey/cloudy
	SAMPLED			CRHE-DPT0354-048.0-20140929					@	1502	
	0354	51-55	7.55	2.742	---	0.11	27.54	1.42	1.796	-255.1	grey
	↓	↓	7.60	2.838	---	0.03	27.11	1.47	1.851	-283.6	grey
	↓	↓	7.58	2.894	---	0.03	26.94	1.50	1.885	-289.0	grey
	SAMPLED			CRHE-DPT0354-053.0-20140929					@	1538	
1601	0354	56-60	7.51	3.298	---	0.04	27.30	1.75	2.497	-272.5	grey
1603	↓	↓	7.52	3.891	---	0.03	26.84	2.06	2.561	-297.2	grey
1605	↓	↓	7.56	4.051	---	0.02	26.73	2.14	2.642	-294.0	grey
	SAMPLED			CRHE-DPT0354-058.0-20140929					@	1606	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/26/14 (24 mB) Sampler: M. Burcham

EH/DPT0353

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0353	26-30	INSUFFICIENT VOL.		---						
	↓	↓									
	SAMPLED			CRHE-DPT0353-028.0-20140929					@	0908	
0933	0353	31-35	7.04	1.030	---	0.17	27.07	0.51	0.669	-107.4	milky grey
	↓	↓	INSUFFICIENT VOLUME		---						NOTE: Screen broke
	SAMPLED			CRHE-DPT0353-033.0-20140929					@	0937	
1000	0353	36-40	7.38	1.321	---	0.11	26.78	0.67	0.872	-253.3	grey
1002	↓	↓	7.36	1.374	---	0.08	26.77	0.69	0.895	-278.7	grey
1004	↓	↓	7.32	1.409	---	0.07	26.55	0.70	0.917	-301.7	grey
	SAMPLED			CRHE-DPT0353-038.0-20140929					@	1005	
1030	0353	41-45	7.29	1.695	---	0.25	26.94	0.86	1.107	-193.3	milky grey
1032	↓	↓	7.27	1.733	---	0.15	26.52	0.87	1.129	-196.7	grey
1034	↓	↓	7.25	1.754	---	0.13	26.19	0.89	1.141	-193.5	grey/cl.
	SAMPLED			CRHE-DPT0353-043.0-20140929					@	1035	
1102	0353	46-50	7.33	1.755	---	0.61	26.35	0.89	1.155	-242.9	grey
1104	↓	↓	7.30	1.885	---	0.13	25.82	0.96	1.230 mB	-253.7	grey
1106	↓	↓	7.28	1.914	---	0.07	25.78	0.97	1.242	-255.6	grey
	SAMPLED			CRHE-DPT0353-048.0-20140929					@ mB 1107		
1126	0353	56-60	7.47	2.788	---	0.11	26.75	1.47	1.854	-287.4	grey
1128	↓	↓	7.52	3.761	---	0.05	26.39	2.03	2.513	-300.3	cloudy grey
1130	↓	↓	7.52	4.286	---	0.04	25.97	2.28	2.802	-291.2	" "
	SAMPLED			CRHE-DPT0353-053.0-20140929					@	1131	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/26/14 Sampler: M. Burcham

CE/DPT0352

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1423	0352	31-35	7.27	0.988	---	0.05	28.92	0.49	0.646	-344.4	grey
1425	↓	↓	7.20	1010	---	0.03	28.61	0.49	0.657	-343.9	grey
1427	↓	↓	7.14	1.013	---	0.03	28.66	0.50	0658	-330.4	grey/cloudy
	SAMPLED			CRHE-DPT0352-033.0-20140926					@	1428	
1445	0352	36-40	7.41	0.948	---	0.17	28.52	0.47	0.633	-409.3	grey
1447	↓	↓	7.43	1064	---	0.02	27.73	0.53	0.698	-431.5	grey
1449	↓	↓	7.35	1.108	---	0.02	27.62	0.55	0.725	-424.8	grey/cloudy
	SAMPLED			CRHE-DPT0352-038.0-20140926					@	1450	
1508	0352	41-45	7.41	1.041	---	0.10	28.71	0.53	0.700	-356.8	grey
1510	↓	↓	7.38	1.142	---	0.04	28.29	0.57	0.748	-378.1	grey
1512	↓	↓	7.34	mS 1.175	---	0.03	28.01	0.58	0.764	-371.5	grey/cloudy
	SAMPLED			CRHE-DPT0352-043.0-20140926					@	1513	
1527	0352	46-50	7.38	1.049	---	0.06	28.74	0.52	0.693	-361.5	grey
1529	↓	↓	7.33	1.137	---	0.02	28.40	0.56	0.744	-351.5	grey
1531	↓	↓	7.27	1.175	---	0.02	mS 28.28	0.58	0.765	-329.7	cloudy
	SAMPLED			CRHE-DPT0352-048.0-20140926					@	1532	
1553	0352	51-55	7.40	0.942	---	0.06	28.29	0.47	0.620	-348.7	grey
1555	↓	↓	7.32	0.969	---	0.03	27.61	0.47	0.630	-332.4	grey/cloudy
1557	↓	↓	7.24	0.966	---	0.03	27.29	0.47	0.638	-317.7	cloudy grey
	SAMPLED			CRHE-DPT0352-053.0-20140926					@	1558	
1617	0352	56-60	7.25	2.408	---	0.22	28.01	1.25	1.599	-207.8	grey
1619	↓	↓	7.28	2.581	---	0.08	27.52	1.33	1.685	-222.0	grey
1621	↓	↓	7.26	2.639	---	0.06	27.46	1.36	1.717	-229.1	cloudy grey
	SAMPLED			CRHE-DPT0352-058.0-20140926					@	1622 mS 1625	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/26/14 Sampler: M. Burcham

BN/0351

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1143	0351	31-35	7.12	1.054	---	0.19	27.90	0.52	NR	-343.6	grey
1145	↓	↓	7.07	1.060	---	0.14	27.18	0.52	0.688	-356.4	grey/cloudy
1147	↓	↓	7.03	1.056	---	0.16	27.48	0.52	0.683	-355.7	" "
	SAMPLED			CRHE-DPT0351-033.0-20140926					@	1148	
1215	0351	36-40	7.26	1.048	---	0.12	28.18	0.52	0.689	-382.0	grey
1217	↓	↓	7.16	1.142	---	0.05	27.83	0.56	0.745	-404.6	grey
1219	↓	↓	7.05	1.161	---	0.04	27.71	0.57	0.757	-401.9	grey
	SAMPLED			CRHE-DPT0351-038.0-20140926					@	1220	
1239	0351	41-45	7.37	1.096	---	0.17	28.62	0.56	0.750	-381.8	grey
1241	↓	↓	7.33	1.313	---	0.11	28.54	0.67	0.875	-406.8	grey
1243	↓	↓	7.26	1.385	---	0.12	28.38	0.69	0.904	-408.8	grey
	SAMPLED			CRHE-DPT0351-043.0-20140926					@	1244	
1304	0351	46-50	7.34	1.281	---	0.08	28.19	0.65	0.857	-388.8	no grey
1306	↓	↓	7.20	1.410	---	0.04	27.83	0.70	0.919	-385.2	grey
1308	↓	↓	7.14	1.421	---	0.04	27.71	0.71	0.924	-374.2	grey
	SAMPLED			CRHE-DPT0351-048.0-20140926					@	1309	
1331	0351	51-55	7.55	1.046	---	0.03	28.67	0.53	0.701	-413.7	grey
1333	↓	↓	7.48	1.216	---	0.02	28.70	0.61	0.801	-418.6	grey
1335	↓	↓	7.43	1.302	---	0.02	28.76	0.65	0.853	-423.5	grey
	SAMPLED			CRHE-DPT0351-053.0-20140926					@	1336	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/26/14 Sampler: M. Burcham

CG/DPT0350

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0822	0350	31-35	7.00	0.818	---	0.19	26.33	0.41	0.551	-173.1	grey
0824	↓	↓	7.02	0.842	---	0.16	26.90	0.41	0.549	-152.5	cloudy grey
0826	↓	↓	7.02	0.837	---	0.16	26.91	0.41	0.545	-158.3	cloudy
	SAMPLED			CRHE-DPT0350-033.0-20140926					@	0827	
0846	0350	36-40	7.35	0.902	---	0.15	27.85	0.45	0.595	-249.6	grey
0849	↓	↓	7.37	0.949	---	0.08	27.70	0.47	0.621	-276.3	grey
0850	↓	↓	7.35	0.977	---	0.07	27.64	0.48	0.638	-285.9	grey
	SAMPLED			CRHE-DPT0350-038.0-20140926					@	0851	
0912	0350	41-45	7.56	0.944	---	0.06	28.01	0.47	0.624	-457.1	grey
0914	↓	↓	7.45	1.006	---	0.05	27.63	0.49	0.656	-455.0	grey
0916	↓	↓	7.39	1.016	---	0.04	27.41	0.50	0.661	-444.9	grey
	SAMPLED			CRHE-DPT0350-043.0-20140926					@	0917	~~grey~~ MB
0936	0350	46-50	7.52	0.851	---	0.17	28.82	0.42	0.571	-426.3	grey
0938	↓	↓	7.45	0.996	---	0.05	28.13	0.49	0.654	-449.0	grey
0940	↓	↓	7.40	1.022	---	0.05	27.89	0.50	0.666	-448.3	
	SAMPLED			CRHE-DPT0350-048.0-20140926					@	0941	
1007	0350	51-55	7.58	0.967	---	0.05	28.31	0.51	0.689	-454.9	grey
1009	↓	↓	7.52	1.278	---	0.03	28.71	0.64	0.847	-462.1	grey
1011	↓	↓	7.47	1.340	---	0.03	28.38	0.67	0.874	-453.2	grey
	SAMPLED			CRHE-DPT0350-053.0-20140926					@	1012	
1044	0350	56-60	7.51	2.815	---	0.83 MB	28.13	1.51	1.936	-444.7	grey
1046	↓	↓	7.53	3.152	---	0.04	27.54	1.72	2.157	-444.7	grey
1048	↓	↓	7.53	3.412	---	0.04	27.43	1.81	2.266	-450.6	grey
	SAMPLED			CRHE-DPT0350-058.0-20141026					@	1049	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/25/14 Sampler: M. Burcham

BM/DPT0349

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1523	0349	31-35	7.38	1.681	---	0.10	30.14	0.83	1.076	-296.7	grey
1525	↓	↓	7.26	1.608	---	0.10	29.20	0.80	1.043	-287.1	grey
1527	↓	↓	7.19	1.595	---	0.13	28.35	0.80	1.034	-270.7	grey/clear
	SAMPLED			CRHE-DPT0349-0330-20140925					@	1528	
1546	0349	36-40	7.52	0.992	---	0.17	30.10	0.48	0.629	-325.3	grey
1548	↓	↓	7.44	0.959	---	0.04	29.66	0.47	0.624	-334.1	grey
1550	↓	↓	7.39	0.952	---	0.04	29.25	0.46	0.618	-329.5	milky grey
	SAMPLED			CRHE-DPT0349-0380-20140925					@	1551	
1606	0349	41-45	7.52	1.016	---	0.15	30.03	0.50	0.672	-382.8	grey
1608	↓	↓	7.35	1.108	---	0.04	29.32	0.54	0.721	-374.2	grey
1610	↓	↓	7.24	1.100	---	0.04	28.79	0.54	0.709	-342.8	grey
	SAMPLED			CRHE-DPT0349-0430-20140925					@	1611	
1630	0349	46-50	7.54	1.096	---	0.17	29.72	0.55	0.745	-351.6	grey
1632	↓	↓	7.37	1.335	---	0.04	28.87	0.66	0.871	-334.1	grey
1634	↓	↓	7.31	1.350	---	0.03	28.67	0.67	0877	-325.5	grey
	SAMPLED			CRHE-DPT0349-0480-20140925					@	1635	
1700	0349	51-55	7.52	2.119	---	0.15	29.09	1.12	1.436	-354.4	grey
1702	↓	↓	7.46	2.618	---	0.04	28.54	1.35	1.714	-337.9	grey
1704	↓	↓	7.43	2.664	---	0.03	28.56	1.37	1.734	-329.8	grey
	SAMPLED			CRHE-DPT0349-0530-20140925					@	1705	
1727	0349	56-60 mbg	7.41	3.016	---	0.04	28.53	1.64	2.099	-254.4	greyish green
1729	↓	↓	7.39	3.842	---	0.03	27.69	2.02	2.506	-267.8	grey
1731	↓	↓	7.37	3.914	---	0.03	27.53	2.06	2.548	-268.7	grey
	SAMPLED			CRHE-DPT0349-0580-20140925					@	1732	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1 Date: 9/25/14 Sampler: M. Burcham

BE/DPT0348

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0348	31-35	7.28	~~2.060~~ mB 1.558	---	0.09	27.37	0.78	1.007	-208.6	grey
	↓	↓	7.21	1.534	---	0.05	27.15	0.76	0.987	mB -194.1	grey
	↓	↓	7.15	1.509	---	0.06	26.95	0.75	0.977	-178.1	cloudy
	SAMPLED			CRHE-DPT0348-031.0-20140925					@	1120	
	0348	36-40	7.39	1.965	---	0.19	27.11	1.01	1.307	-246.3	grey
	↓	↓	7.38	2.093	---	0.05	27.11	1.09	1.403	-254.1	grey
	↓	↓	7.35	2.239	---	0.04	27.08	1.15	1.474	-256.3	grey/cloudy
	SAMPLED			CRHE-DPT0348-038.0-20140925					@	1152	
mB	0348	41-45	7.43	1.920	---	0.16	27.30	0.97	1.246	-235.6	grey
	↓	↓	7.42	1.948	---	0.09	27.34	0.99	1.266	-249.0	grey
	↓	↓	7.44	1.981	---	0.09	27.38	1.01	1.299	-272.9	grey/cloudy
	SAMPLED			CRHE-DPT0348-043.0-20140925					@	1221	
1242	0348	46-50	7.50	2.738	---	0.14	27.72	1.46	1.861	-308.4	grey
mB 1244	↓	↓	7.43	3.657	---	0.08	26.84	1.94	2.411	-314.9	grey
1246	↓	↓	7.37	3.841	---	0.08	26.67	2.03	2.508	-392.6	grey/cloudy
	SAMPLED			CRHE-DPT0348-048.0-20140925						@ 1247	
1305	0348	51-55	7.55	3.895	---	0.22	28.03	2.10	2.613	-263.7	grey
1307	↓	↓	7.56	~~4.230~~ mB 4.230	---	0.10	27.10	2.25	2.769	-243.6	grey
1309	↓	↓	7.55	4.2780	---	0.08	26.89	2.26	2.781	-244.3	cloudy grey
	SAMPLED			CRHE-DPT0348-053.0-20140925					@	1310	
1329	0348	56-60	7.60	4.157	---	0.04	27.30	mB 2.21	2.722	-268.2	grey
1331	↓	↓	7.59	4.230	---	0.04	26.99	2.24	2.753	-262.7	grey
1333	↓	↓	7.58	4.253	---	0.04	26.41	2.25	2.769	-266.6	grey
	SAMPLED			CRHE-DPT0348-058.0-20140925					@	1334	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1 AY/DPT0347

Date: 9/25/14 Sampler: M. Burcham

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0843	~~26-30~~ mb	0347	7.03	1.420	---	0.22	26.72	0.71	0.923	-180.4	grey
0845	0347	26-30	7.09	1.416	---	0.15	26.28	0.70	0.917	-162.0	cloudy
0847	↓	↓	7.09	1.398	---	0.15	26.14	0.70	0.912	-118.2	cloudy
	SAMPLED			CRHE-DPT0347-0280-20140925 mb					@	0848	
0903	0347	31-35	7.39	1.665	---	0.19	27.40	0.84	1.099	-226.8	grey
0905	↓	↓	7.35	1.751	---	0.10	26.84	0.88	1.140	NR	grey/cloudy
0907	↓	↓	7.31	1.751	---	0.09	26.70	0.88	1.140	-194.0	~~grey/cloudy~~ mb grey/cloudy
	SAMPLED			CRHE-DPT0347-033.0-20140925					@	0908	
0919	0347	36-40	7.38	1.891	---	0.16	27.26	0.99	1.278	-219.1	grey
0921	↓	↓	7.32	2.115	---	0.06	26.55	1.06	1.361	-195.1	grey/cloudy
0923	↓	↓	7.22	2.083	---	0.07	26.34	1.06	1.349	-177.5	" "
	SAMPLED			CRHE-DPT0347-038.0-20140925					@	0924	
0938	0347	41-45	7.36	2.248	---	0.30	27.21	1.20	1.542	-216.0	grey
0940	↓	↓	7.32	2.830	---	0.06	26.58	1.47	1.853	-196.2	grey
0942	↓	↓	7.26	2.889	---	0.05	26.29	1.49	1.879	-182.1	grey/cloudy
	SAMPLED			CRHE-DPT0347-~~038.0~~ 043 mb -20140925					@	0943	
1008	0347	46-50	7.53	2.921	---	0.06	26.75	1.53	1.929	-235.0	grey
~~100~~ mb 1010	↓	↓	7.47	3.221	---	0.04	26.52	1.68	2.104	-233.9	grey
1012	↓	↓	7.46	3.301	---	0.04	26.51	1.73	2.154	-233.4	grey
	SAMPLED			CRHE-DPT0347-048.0-20140925					@	1013	
1034	0347	56-60	7.51	3.630	---	0.12	26.42	1.92	2.415	-234.7	grey
1036	↓	↓	7.53	4.033	---	0.04	26.03	2.14	2.637	-219.5	grey
1038	↓	↓	7.51	4.125	---	0.04	25.92	2.19	2.689	-175.2	gray
	SAMPLED			CRHE-DPT0347-058.0-20140925					@	1039	

NR = not recorded

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/24/14 Sampler: M. Burcham

AU/DPT0346

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1514	0346	31-35	7.42	1.021	---	0.10	27.20	0.50	0.662	-394.1	grey
1521	0346	↓	7.24	0.992	---	0.06	26.41	0.48	0.637	-305.2	grey
1523	↓	↓	7.14	0.969	---	0.06	26.17	0.47	0.630	-294.6	~~grey~~ cloudy mb
	SAMPLED			CRHE-DPT0346-033.0-20140924					@	1524	
1539	0346	36-40	7.36	2.115	---	0.06	27.41	1.10	1.416	-400.4	grey
1541	↓	↓	7.29	2.241	---	0.04	26.94	1.17	1.495	-388.5	grey
1543	↓	↓	7.23	2.325	---	0.04	26.80	1.19	1.512	-378.8	cloudy grey
	SAMPLED			CRHE-DPT0346-038.0-20140924					@	1544	
1600	0346	41-45	7.52	1.828	---	0.11	27.75	0.95	1.237	-435.8	grey
1602	↓	↓	7.50	2.095	---	0.07	27.42	1.08	1.390	-450.3	grey
1604	↓	↓	7.45	2.311	---	0.06	27.24	1.89 mb	1.519	-455.8	grey
	SAMPLED			CRHE-DPT0346-043.0-20140924					@	1605	
1624	0346	46-50	7.61	2.163	---	0.16	1.10 mb	27.44	1.479	-454.6	grey
1626	↓	↓	7.64	2.666	---	0.04	26.92	1.41	1.788	-481.4	grey
1628	↓	↓	7.50	2.062	---	0.04	26.58	1.61	2.018	-474.2	grey
	SAMPLED			CRHE-DPT0346-048.0-20140924					@	1629	
1652	0346	51-55	7.54	3.952	---	0.03	26.36	2.11	2.637	-371.2	grey
1654	↓	↓	7.42	4.150	---	0.04	26.01	2.20	2.701	-352.3	grey
1656	↓	↓	7.37	4.161	---	0.04	25.85	2.20	2.704	-356.0	grey
	SAMPLED			CRHE-DPT0346-053.0-20140924					@	1652	
1719	0346	56-60	7.61	3.676	---	0.03	26.80	1.95	2.419	-386.9	grey
1721	↓	↓	7.59	3.883	---	0.03	26.72	2.05	2.540	-384.2	grey
1723	↓	↓	7.59	4.035	---	0.02	26.22	2.13	2.630	-386.9	grey
	SAMPLED			CRHE-DPT0346-058.0-20140924					@	1724	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1 Date: 9/24/14 Sampler: M. Burcham

AV/DPT0345

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
	0345	31-35	INSUFFICIENT VOL.		---						
	↓	↓			---						
	SAMPLED			CRHE-DPT0345-033.0-20140924					@	1153	
1216	0345	36-40	7.49	1.282	---	0.05	27.58	0.57	0.707	-496.8	grey
1218	↓	↓	7.46	0.607	---	0.05	27.47	0.29	0.382	-494.6	grey
1220	↓	↓	7.45	0.594	---	0.06	27.38	0.28	0.385	-502.7	grey
	SAMPLED			CRHE-DPT0345-038.0-20140924					@	1221	
1315	0345	41-45	7.42	2.070	---	0.18	26.44	1.06	1.368	-450.3	grey
1317	↓	↓	7.43	2.151	---	0.11	26.14	1.09	1.390	-465.3	grey
1319	↓	↓	7.49	2.046	---	0.09	26.22	1.04	1.328	-472.0	grey
	SAMPLED			CRHE-DPT0345-043.0-20140924					@	1320	grey MB
1336	0345	46-50	7.58	2.260	---	0.10	26.62	1.07	1.377	-484.9	grey
1338	↓	↓	7.51	2.188	---	0.09	26.51	1.16	1.479	-487.4	grey
1340	↓	↓	7.47	2.302	---	0.07	26.45	1.19	1.518	-488.6	grey
	SAMPLED			CRHE-DPT0345-048.0-20140924					@	1341	
1405	0345	51-55	7.61	2.551	---	0.30	26.40	1.31	1.659	-412.9	grey
1407	↓	↓	7.64	2.600	---	0.08	26.28	1.35	1.702	-480.2	grey
1409	↓	↓	7.64	2.783	---	0.06	26.21	1.45	1.822	-493.2	grey
	SAMPLED			CRHE-DPT0345-053.0-20140924					@	1410	
1431	0345	56-60	7.37	3.606	---	0.17	26.48	1.96	2.463	-447.0	grey
1433	↓	↓	7.57	4.011	---	0.07	26.13	2.15	2.656	-462.4	grey
1435	↓	↓	7.55	4.147	---	0.06	26.05	2.14	2.700	-467.4	grey
	SAMPLED			CRHE-DPT0345-058.0-20140924					@	1436	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1 Date: 9/24/14 Sampler: M. Burcham

AS/DPT0344

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0905	0344	31-35	7.15	1.281	---	0.19	25.99	0.63	0.824	-248.7	grey
0907	↓	↓	7.33	1.289	---	0.17	25.93	0.64	0.842	-264.2	grey/brown
0909	↓	↓	INSUFFICIENT VOLUME								
	SAMPLED			CRHE-DPT0344-033.0-20140924				mB @		0910	
0925	0344	36-40	7.37	(.93)	---	0.17	26.14	0.99	1.277	-248.7	grey
0927	↓	↓	7.32	2.016	---	0.11	25.87	1.03	1.322	-260.2	cloudy/brown
0929	↓	↓	7.32	2.057	---	0.10	25.86	1.05	1.340	-257.6	"
	SAMPLED			CRHE-DPT0344-038.0-20140924				mB @		0930	
0947	0344	41-45	7.58	0.883	---	0.09	26.44	0.44	0.544	-354.7	grey
0949	↓	↓	7.58	1.076	---	0.07	26.39	0.53	0.692	-384.5	grey
0951	↓	↓	7.57	0.873	---	0.07	26.33	0.38	0.784	-400.1	cloudy grey
	SAMPLED			CRHE-DPT0344-043.0-20140924				@		0952	
1009	0344	46-50	7.51	2.014	---	0.11	26.63	1.06	1.357	-467.6	grey
1011	↓	↓	7.44	2.243	---	0.05	26.29	1.15	1.466	-483.7	grey
1013	↓	↓	7.47	2.291	---	0.05	26.18	1.17	1.491	-440.1	grey
	SAMPLED			CRHE-DPT0344-048.0-20140924				@		1014	
1041	0344	51-55	7.50	3.333	---	0.05	1.74→2.167→25.74		mB	-455.0	grey
1043	↓	↓	7.43	3.317	---	0.04	25.80	1.73	2.157	-453.5	grey
1045	↓	↓	7.39	3.319	---	0.04	25.79	1.73	2.159	-455.5	grey
	SAMPLED			CRHE-DPT0344-053.0-20140924				@		1046	"
1105	0344	56-60	7.61	2.986	---	0.23	27.00	1.57	1.472	-403.7	grey
1107	↓	↓	7.67	3.188	---	0.03	26.71	1.70	2.135	-431.5	grey
1109	↓	↓	7.63	3.591	---	0.03	26.24	1.91	2.365	-429.7	grey
	SAMPLED			CRHE-DPT0344-058.0-20140924				@		1110	

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1 Date: 9/23/14 Sampler: M. Burcham

EF/DPT0343 9/24/14

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1155	0343	31-35	7.53	1.572	---	0.09	26.68	0.81	1.052	-465.4	grey
1157	↓	↓	7.46	1.695	---	0.08	25.38	0.87	1.120	-481.8	grey
1159	↓	↓	7.29	1.766	---	0.11	25.02	0.89	1.148	-466.0	cloudy
	SAMPLED			CRHE-DPT0343-033.0-			20140923		@	1200	
1216	0343	36-40	7.36	1.696	---	0.14	26.37	0.86	1.112	-436.1	grey
1218	↓	↓	7.29	1.780	---	0.15	25.24	0.90	1.157	-398.8	grey
1220	↓	↓	7.21	1.769	---	0.09	25.14	0.89	1.152	-427.9	grey
	SAMPLED			CRHE-DPT0343-038.0-			20140923		@	1221	
1239	0343	41-45	7.61	1.516	---	0.12	27.79	0.77	1.008	-475.0	grey
1241	↓	↓	7.58	1.640	---	0.04	26.83	0.83	1.075	-495.3	grey
1243	↓	↓	7.55	1.707	---	0.03	26.86	0.86	1.116	-500.0	grey
	SAMPLED			CRHE-DPT0343-043.0-			20140923		@	1244	
1631	0343	46-50	7.64	1.401	---	0.21	24.88	0.69	0.903	-263.0	grey
1633	↓	↓	7.66	1.400	---	0.14	24.87	0.71	0.919	-285.1	grey
1635	↓	NOT	SAMPLED.	See	Field	note	1636				
1735	0343	46-50	7.29	2.131	---	0.16	24.05	1.09	1.387	-362.0	grey
1737	↓	↓	7.17	2.134	---	0.12	23.62	1.09	1.380	-318.0	grey
1739	↓	↓	7.13	2.134	---	0.12	23.56	1.09	1.384	-295.2	grey
	SAMPLED			CRHE-DPT0343-048.0-			20140923		@	1740	
9/24/14 1221	0343	51-55	7.35	3.663	---	0.19	28.08	1.92	2.381	-218.6	grey
1223	↓	↓	7.45	3.690	---	0.12	27.72	1.94	2.402	-230.4	grey/cloudy
1225	↓	↓	7.45	3.719	---	0.11	27.46	1.95	2.419	-228.3	" "
	SAMPLED			CRHE-DPT0343-053.0-			20140924		@	1226	
	0343	56-60	7.60	3.800	---	0.15	28.32	2.01	2.469	-182.0	grey
	↓	↓	7.64	3.976	---	0.06	27.76	2.10	2.599	-185.1	grey
	↓	↓	7.63	4.070	---	0.05	27.25	2.16	2.666	-192.9	grey
	SAMPLED				---						

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/23/14 Sampler: M. Burcham

CT/DPTO342

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
0838	0342	31-35	7.35	2.012	---	0.16	25.95	1.02	1.312	-491.1	grey
0840	↓	↓	7.35	2.029	---	0.12	25.94	1.03	1.323	-519.1	grey
0842	↓	↓	7.35	2.040	---	0.15	25.90	1.04	1.325	-530.4	grey
	SAMPLED			CRHE-DPTO342-0332-20140923 @ 0943							
0858	0342	36-40	7.38	2.270	---	0.15	26.01	1.17	1.483	-314.3	grey
0900	↓	↓	7.40	2.329	---	0.07	26.00	1.20	1.522	-244.1	grey
0902	↓	↓	7.36	2.389	---	0.06	25.99	1.23	1.556	-336.7	grey
	SAMPLED			CRHE-DPTO342-0380-20140923 @ 0903							
0922	0342	41-45	7.53	1.561	---	0.07	26.44	0.81	1.063	-481.4	grey
0924	↓	↓	7.53	2.027	---	0.04	26.15	1.04	1.334	-504.2	grey
0926	↓	↓	7.53	2.126	---	0.04	26.10	1.09	1.397	-512.0	grey
	SAMPLED			CRHE-DPTO342-0430-20140923 @ 0927							
1032	0342	46-~~58~~ mb	7.55	2.232	---	0.12	26.50	1.03	1.324	-500.0 mb	grey
1034	↓	↓	7.58	2.231	---	0.09	26.42	1.15	1.470	-517.0	grey
1036	↓	↓	7.51	2.425	---	0.09	26.47	1.25	1.595	-513.9	grey
	SAMPLED			CRHE-DPTO342-0480-20140923 @ 1037							
1056 mb	~~1032~~	0342	56-60	7.66	3.303	---	0.06	26.18	1.78	2.252	-482.6	grey
1058	↓	↓	7.61	3.941	---	0.05	25.78	2.09	2.583	-364.5	grey
1100	↓	↓	7.60	4.050	---	0.05	25.96	2.14	2.632	-291.1	grey
	SAMPLED			CRHE-DPTO342-0580-20140923 @ 1101							

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHE

Project No: FR1681/36*1

Date: 9/22 & 9/23/14 Sampler: M. Burcham

CX/ DPT0341

	Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
9/22	1251	0341	~~36-41~~ 31-35	MB 7.63	1.854	---	0.16	29.01	0.93	1.204	-446.1	grey
	1253	↓	↓	INSUFFICIENT VOLUME								
	1255	↓	↓	---								
		SAMPLED		CRHE-DPT-0341-03		MB	3.0-20140922		@	1256		
	1315	0341	36-40	7.44	2.206	---	0.07	28.40	1.13	1.444	-514.1	grey
	1317	↓	↓	7.38	2.278	---	0.05	28.24	1.16	1.487	-487.2	grey
	1319	↓	↓	7.34	2.304	---	0.05	28.18	1.18	1.502	-453.0	grey
		SAMPLED		CRHE-DPT0341-03			8.0-20140922		@	1320		
	1337	0341	41-45	7.52	2.233	---	0.10	29.01	1.15	1.476	-487.4	grey
	1339	↓	↓	7.52	2.321	---	0.04	28.44	1.18	1.510	-511.7	grey
	1341	↓	↓	7.52	2.337	---	0.04	28.14	1.19	1.520	-526.8	grey
		SAMPLED		CRHE-DPT0341-04			3.0-20140922		@	1342		
	1406	0341	46-50	7.80	1.629	---	0.05	0.85 MB 28.74		1.057	-548.0	grey
	1408	↓	↓	7.80	1.635	---	0.04	28.72	0.82	1.059	-556.4	grey
	1410	↓	↓	Insufficient VOLUME								
		SAMPLED		CRHE-DPT0341-04			8.0-20140922		@	1411		
	1441	0341	51-55	7.58	2.667	---	0.16	28.24	1.314 MB	1.45	-473.2	grey
	1443	↓	↓	7.61	3.044	---	0.06	~~1.59~~ 27.40	1.59	2.019	-506.0	grey
	1445	↓	↓	7.59	3.295	---	0.05	27.22	1.72	2.152	-514.0	grey
		SAMPLED		CRHE-DPT0341-05			3.0-20140922		@	1446		
9/23	0806	0341	56-60	7.79	2.365	---	0.22	24.00	1.23	1.560	-461.0	grey
	0808	↓	↓	7.84	2.595	---	0.13	24.00	1.35	1.703	-513.2	grey
	0810	↓	↓	7.84	2.687	---	0.11	24.04	1.39	1.748	-525.1	grey
		SAMPLED		CRHE-DPT0341-05			8.0-20140923		@	0811		

KSC, FL

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRHF Annex

Project No: FR1681

Date: 10/10/14 Sampler: D. Sizemore

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1002	DPT 358 (DA)	26-30	7.96	1.131	—	.15	25.00	.55	.72	-17.8	Gray
1004	"	"	8.00	1.093	—	.12	25.03	.54	.70	-30.8	"
1006	"	"	8.00	1.078	—	.12	25.01	.55	.70	-29.9	"
			Sampled @	1007							
1016	DPT 358	31-35	7.47	1041	—	.14	23.27	.51	.67	-116.0	Gray
1018	"	31-35	7.48	1.176	—	.34	25.38	.59	.77	-108.4	"
1020	"	"	7.50	1.176	—	.10	25.39	.59	.77	-108.4	"
			Sampled @	1021							
1032	DPT 358	36-40	7.46	1.006	—	.09	23.69	.48	.64	-128.1	Gray
	"	"		Dry / Recharge then Sample							
	"	"									
			Sampled @	1039							
1050	DPT 358	41-45	7.68	1.371	—	.16	23.60	.69	.89	-176.8	Tan
1052	"	"	7.72	1.395	—	.11	23.99	.70	.91	-178.9	"
1054	"	"	7.72	1.396	—	.10	24.00	.70	.91	-179.9	"
			Sampled @	1055							
1106	DPT 358	46-50	7.62	1.444	—	.56	24.70	.72	.94	-188.3	Tan
1108	"	"	7.57	1.447	—	.37	25.00	.73	.94	-188.9	"
1110	"	"	7.56	1.469	—	.31	25.12	.74	.97	-189.9	"
				Sampled @	1111						
1126	DPT 358	51-55	7.77	1.880	—	.10	23.46	.95	1.22	-223.3	"
	"	"		Dry / Recharge							
1135	Dry			Sampled @	1135						
1147	358	56-60	7.81	1.307	—	.12	23.35	1.77	2.20	-234.6	Gray
1149	"	"	7.41	3.429	—	.13	23.75	1.76	2.21	-236.1	"
1151	"	"	7.41	3.484	—	.13	25.83	1.77	2.19	-236.1	"
			Sampled @	1152							

eosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CCAFE KSC, FL

Project No: FR 1681

Date: 11/10/14 Sampler: D. Sizemore

Time	BE DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1350	DPT 0359	31-35	7.90	2,089	—	.21	24.65	1.07	1.36	-108.2	Gray
1352	"	"	7.96	2,108	—	.15	24.73	1.08	1.37	-110.1	"
1354	"	"	7.99	2.116	—	.13	24.74	1.08	1.38	-111.0	"
				Sampled @ 1355							
1404	359	36-40	7.77	2.587	—	.16	23.19	1.35	1.71	-117.0	Gray
1406	"	"	7.80	2.631	—	.11	23.75	1.36	1.72	-122.0	"
1408	"	"	7.80	2.632	—	.12	23.81	1.37	1.72	-122.6	"
				Sampled @ 1409							
1418	359	41-45	7.79	2.973	—	.12	21.82	1.55	1.93	-116.1	Gray
	"	"			Day 1 Recharge						
	"	"									
			Sampled	@ 1423							
1434	359	46-50	7.46	3.729	—	.11	24.08	1.99	2.46	-176.3	Gray
1436	"	"	7.45	3.812	—	.10	24.00	1.99	2.49	-175.9	"
1438	"	"	7.45	3.815	—	.09	24.01	1.99	2.49	-176.0	"
				Sampled @ 1439							
1446	359	51-55	7.69	3.877	—	.21	20.84	2.00	2.52	-165.0	Gray
1451	359	"	7.65	3.875	—	.19	20.95	2.06	2.52	-163.9	"
1453	359	"	7.65	3.875	—	.19	20.95	2.06	2.52	-164.0	"
			Sampled @	1454							

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRREA KSC FL

Project No: FL1881

Date: 11/11/14 Sampler: D. Silvernoc

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
744	DPT 359	56-60	7.95	3.689	—	.91	20.68	2.00	250	-21.3	Gray
746	"	"	7.95	3.915	-	.57	21.00	2.00	2.57	-22.6	"
748	"	"	7.98	3.986	—	.47	21.13	2.00	2.61	-23.0	"
				Sampled @ 749							
	EB										
933	DPT360	36-40	7.95	1.209	—	.37	24.42	.61	.79	-86.0	Gray
935	"	"	8.09	1.225	—	.34	24.44	.61	.80	-88.7	"
937	"	"	8.09	1.217	—	.35	24.42	.61	.80	-90.4	"
				Sampled @ 938							
946	DPT360	41-45	7.90	1.426	—	.13	24.41	.72	.94	-68.8	"
948	"	"	7.97	1.478	—	.09	24.69	.74	.96	-73.0	"
950	"	"	7.95	1.482	—	.09	24.63	.74	.90	-74.0	"
				Sampled @ 951		24+					
1001	DPT360	46-50	7.89	1.712	—	.09	25.24	.89	1.15	-76.2	Gray
1003	"	"	7.90	1.840	—	.07	25.21	.95	1.22	-83.7	"
1005	"	"	7.86	1.854	—	.07	25.25	.96	1.25	-83.9	"
		51-55		Sampled @ 1006							
1023	DPT360	~~46~~	7.82	2.611	—	.13	25.49	1.35	1.71	-33.4	Gray
1025	"	"	7.83	2.720	—	.09	25.47	1.43	1.80	-91.9	"
1027	"	"	7.84	2.821	—	.08	25.50	1.48	1.87	-97.4	"
				Sampled @ 1028							
1043	360	56-60	7.73	3.867	—	.44	24.64	2.04	2.52	-89.6	Gray
1045	"	"	7.71	3.874	—	.24	24.66	2.05	2.52	-91.9	"
1047	"	"	7.70	3.880	—	.36	24.66	2.05	2.52	-93.4	"
				Sampled @ 1048							

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CAMFA KSC, FL

Project No: FA1681

Date: 11/11/14 Sampler: D. Sremore

Time	EFK DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1301	361	31-35	8.10	1.282	—	.57	25.60	.64	.93	-92.7	Gray
1303	"	"	7.94	1.283	—	.40	25.44	.64	.83	-94.7	"
1305	"	"	7.95	1.282	—	.38	25.39	.64	.83	-98.1	"
				Sampled @ 1306							
1314	361	36-40	8.01	1.270	—	.12	26.34	.64	.84	-98.5	Gray
1316	361	"	8.09	1.300	—	.09	26.30	.64	.84	-101.3	"
1318	"	"	8.05	1.307	—	.09	26.24	.64	.84	-102.2	"
				Sampled @ 1319							
1327	361	41-45	7.81	1.256	—	.09	26.20	.63	.83	-119.4	Gray
1329	"	"	7.82	1.281	—	.09	26.00	.63	.84	-121.4	"
1331	"	"	7.82	1.297	—	.09	25.01	.63	.84	-122.0	"
				Sampled @ 1332							
1343	361	46-50	8.01	1.439	—	.09	24.94	.72	.93	-136.2	Gray
1345	"	"	8.00	1.436	—	.07	25.11	.72	.94	-137.8	"
1347	"	"	8.00	1.456	—	.07	25.11	.73	.95	-130.1	"
				Sampled @ 1348							
1400	361	51-55	7.88	1.603	—	.07	25.57	.84	1.07	-134.9	Gray
1402	"	"	7.84	1.718	—	.06	25.58	.88	1.15	-134.1	Gray
1404	"	"	7.84	1.719	—	.06	25.60	.88	1.15	-135.2	"
				Sampled @ 1405							
1417	361	56-60	7.62	3.040	—	.12	25.70	1.62	2.022	-131.2	Gray
1419	"	"	7.59	3.142	—	.08	25.56	1.67	2.094	-133.8	"
1421	"	"	7.59	3.148	—	.07	25.19	1.69	2.100	-133.9	"
				Sampled @ 1422							

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRIHEA KSC, FL

Project No: FR1681

Date: 11/11/14 Sampler: D. Sizemore

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1559	DF	31-35	8.40	1.560	—	.11	25.80	.78	1.01	-106.8	Gray
1601	DPT 362	31-35	8.40	1.557	—	.11	25.80	.78	1.01	-108.5	"
1603	"	"	8.40	1.555	—	.16	25.84	.78	1.01	-109.1	"
				Sampled @		1604					
1613	DPT 362	36-40	7.72	2.100	—	.06	25.81	1.07	1.37	-147.2	Gray
1615	"	36-40	7.72	2.086	—	.08	26.11	1.06	1.36	-146.2	"
1617	"	36-40	7.75	2.087	—	.11	25.76	1.06	1.36	-144.6	"
				Sampled @		1618	25.23	1.22			
1628	362	41-45	7.72	2.126	—		↓	↓	1.55	-110.1	Gray
1630	"	"	7.56	2.418	—	.06	26.06	1.26	1.60	-112.5	"
1632	"	"	7.57	2.472	—	.06	26.16	1.27	1.61	-119.8	"
				Sampled @		1633					
	11/12/14										
727	362	46-50	8.19	2.357	—	.45	22.56	1.24	1.57	-46.1	Gray
729	"	"	8.20	2.462	—	.30	22.85	1.29	1.57	-74.1	"
731	"	"	8.21	2.469	—	.29	22.89	1.30	1.62	-75.3	"
				Sampled @		732	20.00	1.49	1.84	-88.9	"
746	362	51-55	7.92	2.786	—	.23	↓	↓	↓	↓	Gray
748	"	"	7.92	2.940	—	.14	19.28	1.41	2.01	-96.1	"
750	"	"	7.92	2.949	—	.10	19.64	1.64	2.03	-96.5	"
				Sampled @		751					
806	362	56-60	7.61	3.237	—	.15	20.87	1.79	2.23	-96.5	Gray
808	"	"	7.60	3.509	—	.15	20.75	1.86	2.29	-100.1	"
810	"	"	7.63	3.515	—	.16	20.75	1.86	2.29	-101.2	"
				Sampled @		811					

Geosyntec consultants

DPT GEOCHEMICAL DATA FORM

Site Name/Location: CRREA KSC, FL

Project No: FL1681

Date: 11/12/14 Sampler: D Sicenore

Time	DPT Location	Screened Interval (ft BLS)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp (°C)	Salinity (%)	TDS (g/L)	ORP (mV)	Color / Notes
1006	DD 363	31-35	8.55	.683	–	.13	24.76	.33	.44	-90.7	gray
1008	"	"	8.51	.664	–	.17	24.83	.32	.43	-90.5	"
1010	"	"	8.50	.654	–	.17	24.85	.32	.43	-93.8	"
			Sampled @	1011							
1020	363	36-40	8.26	.694	–	.17	22.57	.34	.45	-115.0	Gray
1022	"	"	8.28	.694	–	.08	22.70	.34	.45	-120.0	"
1024	"	"	8.28	.696	–	.06	22.85	.34	.45	-124.0	"
			Sampled @	1025							
1034	363	41-45	7.97	.968	–	.06	25.61	.47	.63	-96.4	Gray
1036	"	"	7.90	.963	–	.06	25.66	.47	.63	-97.8	"
1038	"	"	7.95	.963	–	.06	25.71	.47	.63	-98.3	"
			Sampled @	1039							
1050	363	46-50	7.65	1.027	–	.06	25.46	.52	.69	-117.3	Gray
1052	"	"	7.69	1.037	–	.06	25.50	.52	.69	-117.5	"
1054	"	"	7.69	1.037	–	.06	25.49	.52	.69	-118.1	"
			Sampled @	1055							
1106	363	51-55	7.91	1.334	–	.31	23.49	.77	1.01	-90.8	Gray
1108	"	"	7.35	1.334	–	.04	23.58	1.00	1.44	-98.1	"
1110	"	"	7.35	2.235	–	.80	23.72	1.16	1.47	-101.1	"
				Sampled @	1111						
1126	363	56-60	7.57	3.435	–	.05	25.58	1.81	2.25	-82.9	Gray
1128	"	"	7.59	3.465	–	.05	25.66	1.82	2.26	-95.1	"
1130	"	"	7.60	3.492	–	.05	25.46	1.83	2.28	-99.7	"
				Sampled @	1131						

SOIL BORING LOGS

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

North side of the site.

BORING NO.: SB0001 PROJECT NO.: FR1681 PAGE 1 OF 2

SITE: Contractor's Rd. Heavy Equipment Area DATE: 1-21-2010

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4" in 6"

TOTAL DEPTH: 80' BLS GROUNDWATER DEPTH: ~5' BLS

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: Neil Gamache/Ray/AJ/Fred LOGGER: Emily Guyer

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
gray/light brown medium SAND (SW) with 20% 1" gravel		1	
--same with less gravel (~5%)		2	
--same with no gravel at 2'		3	
black and tan silty SAND (SM)		4	
gray medium SAND (SP)		5	
--same, becomes tan (2.5Y 8/2)		6	
--same, with 20% shell fragments (1-3 mm)		7	
		8	
Shell Hash with tan (2.5Y 7/2) fine to medium SAND (SW) (~80% 3-5mm shell fragments)		9	
		10	
		11	
		12	
gray (2.5Y 6/1) fine SAND (SP) w/50% shell fragments		13	
		14	
--same, w/ 15% shell fragments		15	
		16	
		17	
--same, w/trace shell		18	
--same, w/trace shells up to 1" length		19	
		20	
		21	
		22	
--same, with 20% shell fragments		23	
		24	
		25	
--same, becomes light gray (GLEY1 8/N)		26	
		27	
		28	
		29	
		30	
		31	
		32	
		33	
		34	
		35	
		36	
		37	
		38	
		39	

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
black (GLEY1 3/N) and light gray (GLEY1 8/N) fine to medium SAND (SW) w/50% shell fragments		39 40 41 42 43 44 45 46	
--same, w/larger shell fragments (~1" length)		47 48 49 50	
light gray (GLEY2 1/10B) shell hash (wet, like mixed concrete)		51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	
gray (GLEY2 1/10B) silty-clayey-SAND (SM/SC) w/20% shell fragments --same, becomes medium gray (GLEY2 7/5PB) --same, becomes black and light gray w/15% shell fragments --same, becomes light gray w/trace shell			
black and light gray medium SAND (SP)			
light gray silty fine SAND (SM) w/trace shell fragments			
light gray (GLEY1 8/N) w/50% shell fragments		67 68 69 70 71 72 73 74 75 76 77 78 79 80	
gray (GLEY1 5/N) clayey SAND (SC)/sandy CLAY (CL) w/trace shell			
gray (GLEY1 5/N) clayey SAND (SC) w/30% shell fragments			
gray (GLEY1 5/N) fine silty SAND w/15% shell fragments			
BORING TERMINATED AT 80 FEET BELOW LAND SURFACE AND ABANDONED WITH BENTONITE CHIPS TO 5 FT BLS AND GROUTED TO LAND SURFACE.			

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

East side of the site.

BORING NO.: SB0002 PROJECT NO.: FR1681 PAGE 1 OF 2

SITE: Contractor's Rd. Heavy Equipment Area DATE: 1-21-2010

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4" in 6"

TOTAL DEPTH: 80' BLS GROUNDWATER DEPTH: ~5' BLS

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: Neil Gamache/Ray/AJ/Fred LOGGER: Emily Guyer

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
gray/light brown medium SAND (SP) with 20% 1.5" gravel --same with no gravel		1 2 3 4	
dark brown medium SAND (SP) w/organics and wood chips --same, becomes tan (2.5Y 8/2) --same, with trace shell fragments (1-3 mm) --same, becomes medium brown		5 6 7 8 9 10 11 12	
--same, becomes dark gray to black --same, becomes gray w/50% shell fragments (1-3mm) --same, w/larger shell fragments (5mm)		13 14 15 16 17 18	
gray fine SAND (SP) w/trace shell fragments --same, w/wet 20% shell fragments		19 20 21 22 23 24 25 26 27 28	
Shell Hash w/gray fine to medium SAND (SW)		29 30 31 32 33	
gray fine SAND (SP) w/trace shell		34 35 36 37 38 39	

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BORING NO.: SB0002 SITE: Contractor's Rd. Heavy Equipment Area PROJ. NO.: FR1681 PAGE 2 OF 2

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
light gray and dark gray (salt and pepper) medium SAND (SP) w/50% shell fragments		39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	
~2" layer of calcified shell/rock from 56'-56'2"			
light gray medium sand w/50% shell fragments (wet)		57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	
--same, w/chunks of clay			
--same, no clay, dryer			
gray silty SAND (SM) w/trace shell			
dark and light gray (salt and pepper) Shell Hash w/fine to medium sand			
gray clayey SAND (SC)			
gray clayey SAND (SC)/sandy CLAY (CL) w/trace shell			
silty clayey SAND (SM/SC) w/10% shell fragments			
BORING TERMINATED AT 80 FEET BELOW LAND SURFACE AND ABANDONED WITH BENTONITE CHIPS TO 5 FT BLS AND GROUTED TO LAND SURFACE.			

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

South side of the site.

BORING NO.: SB0003 PROJECT NO.: FR1681 PAGE 1 OF 2

SITE: Contractor's Rd. Heavy Equipment Area DATE: 1-21-2010

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4" in 6"

TOTAL DEPTH: 80' BLS GROUNDWATER DEPTH: ~5' BLS

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: Neil Gamache/Ray/AJ/Fred LOGGER: Emily Guyer

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
brown medium SAND (SW) with 20% 1" gravel		1	road base, coarse
--same with less gravel (~5%)		2	
--same, becomes dark brown		3	
dark brown orange and tan medium SAND (SP)		4	
dark and medium brown silty SAND (SM) w/organics		5	
brown medium SAND (SP)		6	
		7	
--same, becomes light tan		8	
--same, becomes light gray		9	
--same, becomes gray and tan		10	
--same, becomes gray w/roots and organics		11	
shell hash with gray fine to medium SAND (SW)		12	
		13	
gray fine SAND (SP) w/40% shell fragments		14	
		15	
--same, w/25% shell fragments		16	
		17	
shell hash w/gray fine sand		18	
		19	
gray fine SAND (SP) w/trace shell fragments		20	
		21	
		22	
		23	
		24	
--same, 2" layer of shell hash		25	
		26	
--same, w/10% shell fragments		27	
		28	
		29	
		30	
		31	
shell hash w/gray sand		32	
		33	
gray fine silty SAND (SM) w/trace shell fragments		34	
		35	
		36	
		37	
		38	
dark gray fine SAND (SP) w/50% shell fragments		39	

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BORING NO.: SB0003 SITE: Contractor's Rd. Heavy Equipment Area PROJ. NO.: FR1681 PAGE 2 OF 2

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
		39	
		40	
		41	
		42	
		43	
		44	
		45	
		46	
		47	
		48	
		49	
		50	
		51	Shell Hash
gray medium SAND (SP) w/80% shell fragments		52	
fine silty-clayey SAND (SM/SC) w/50% shell fragments		53	
		54	
		55	
		56	
		57	
		58	
		59	
dark gray and light gray medium SAND (SP) w/30% shell fragments		60	Salt and pepper sand
		61	
gray fine silty SAND (SM) w/trace shell fragments		62	
		63	
		64	
		65	
		66	
		67	
--same, w/30% shell fragments		68	
		69	
		70	
gray clayey SAND/sandy CLAY (SC/CL) w/trace shell fragments and some whole shells (up to 2") and sand lenses		71	
		72	
		73	
		74	
		75	
		76	
		77	
		78	
gray silty SAND (SM) w/ 50% shell fragments		79	
		80	
BORING TERMINATED AT 80 FEET BELOW LAND SURFACE AND ABANDONED WITH BENTONITE CHIPS TO 5 FT BLS AND GROUTED TO LAND SURFACE.			

C:\DOCUMENTS AND SETTINGS\EGUYER\DESKTOP\FR1681 BORING LOGS\SB0003 PG2.DWG (1 February 2010) eguyer

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BORING LOG

BOREHOLE LOCATION MAP

West side of the site.

BORING NO.: SB0004 PROJECT NO.: FR1681 PAGE 1 OF 2

SITE: Contractor's Rd. Heavy Equipment Area DATE: 1-22-2010

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4" in 6"

TOTAL DEPTH: 80' BLS GROUNDWATER DEPTH: ~5' BLS

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: Neil Gamache/Ray/AJ/Fred LOGGER: Emily Guyer

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
tan and dark brown medium SAND (SW)		1	road base, coarse
--same w/some black staining		2	
		3	
		4	
		5	
--same, becomes light tan		6	
--same, becomes brown w/organics and wood chips		7	
--same, becomes tan w/no organics w/50% shell fragments		8	
		9	
--same, becomes gray		10	
		11	
gray fine SAND (SP) w/trace shell fragments		12	
		13	
		14	
		15	
		16	
		17	
		18	
		19	
		20	
		21	
		22	
		23	
gray fine to medium SAND (SW) w/30% shell fragments		24	
		25	
		26	Shell Hash
gray medium SAND (SP) w/80% shell fragments		27	
		28	
--same, w/50% shell fragments		29	
		30	
		31	
		32	
--same, w/ trace calcified sand and shell		33	
--same, no more calcified sand and shell		34	
		35	
		36	
		37	
		38	
		39	

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	DRILLING LOG
		39	
		40	
		41	
		42	
		43	
		44	
		45	
		46	
		47	
		48	
		49	
		50	
		51	
fine silty-clayey SAND (SM/SC) w/50% shell fragments		52	Shell Hash
		53	
		54	
		55	
		56	
		57	
		58	
		59	
gray fine silty SAND (SM) w/trace shell fragments		60	
		61	
		62	
		63	
		64	
		65	
		66	
		67	
		68	
		69	
--same, w/20% shell fragments		70	
gray clayey SAND/sandy CLAY (SC/CL) w/trace shell fragments		71	
		72	
		73	
		74	
		75	
		76	
		77	
gray fine SAND (SP) w/ 20% shell fragments		78	
		79	
		80	
BORING TERMINATED AT 80 FEET BELOW LAND SURFACE AND ABANDONED WITH BENTONITE CHIPS TO 5 FT BLS AND GROUTED TO LAND SURFACE.			

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB0005 PROJECT NO.: FR1681 PAGE 1 OF 3

SITE: NASA - CRHE DATE: 12.19.11

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4"/6"

TOTAL DEPTH: 82 'bls GROUNDWATER DEPTH: ≈ 5 Ft bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: V. Scott, J. Kiever, J. Smith LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
Fine SAND with organics, 10YR 4/2 (dark grayish brown), dry, loose, moderately sorted		1–2		
Fine SAND, 7.5 YR 6/4 (light brown), wet at 5 ft bls, loose, poorly sorted, (50% coarse fossils, 40% s, 10% f); fossiliferous, coarse size		3–6		
fine - medium SAND, medium - coarse fossiliferous, 2.5 Y 6/2 (light brownish gray), loose, moderately sorted, wet, (60% s, 40% fossil); (mostly bivalve fossils)		7–12		
Fine SAND with shells, 2.5 Y 6/1 (gray), wet, loose, moderately sorted, (75% s, 25% shell); bivalves, coarse size		13–26		
shell hash and Fine SAND, 2.5 Y 6/1 (gray)		27		
Fine - medium SAND with shells, 2.5 Y 7/1 (light gray), wet, loose, moderately to poorly sorted, (15 85% shell, 85% s)		28–39		

P:\ADMINISTRATIVE\FIELD\FIELD FORMS\BORINGLOG PG1.DWG (7 June 2007) eguyer

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB0005 PROJECT NO.: FR1681 PAGE 2 OF 3

SITE: NASA-CRHE DATE: 12.19.11

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4"/6"

TOTAL DEPTH: 82 ft bls GROUNDWATER DEPTH: ≈5 ft ~~bgs~~ bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: V. Scott, S. Kiever, J. Smith LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
		41		
		42		
		43		
		44		
		45		
		46		
		47		
Sandy SILT, fossiliferous (coarse shells), GLEY 1 7/1 (light greenish gray), wet, medium dense, poorly sorted, (~~40~~ 45% s, 50% f, 5% fossil)		48		
		49		
		50		
		51		
		52		
		53		
		54		
		55		
		56		
fine-very fine SAND, GLEY 1 6/1 (greenish gray), wet, medium dense, well to moderately sorted, (85% sand), 10% f, 5% shell); trace shell		57		
		58		
		59		
		60		
		61		
		62		
		63		
		64		
		65		
silty SAND, GLEY 1 6/1 (greenish gray), wet, dense, well sorted; trace fossil		66		
		67		
		68		
shell hash		69		
clayey SILT, GLEY 1 6/1 (greenish gray), wet, stiff, low plasticity, (10% s, 80% f, 10% fossil); little fossil		70		
		71		
		72		
		73		
		74		
		75		
		76		
		77		
		78		
		79		

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BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB0005 PROJECT NO.: FR1681 PAGE 3 OF 3

SITE: NASA - CRITE DATE: 12.19.4

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4"/6"

TOTAL DEPTH: 82 ft bls GROUNDWATER DEPTH: ≈5 ft bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: ~~Scott, J. Kinney, J Smith~~ LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
silty clayey SAND, little fossil, GLEY 1 6/1 (greenish gray), wet, medium dense, poorly sorted		81		
		82		
Borehole terminated at 82 ft bls.				

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB0006 PROJECT NO.: FR1681 PAGE 1 OF 2

SITE: NASA - CRHC DATE: 12.20.11

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4"/6"

TOTAL DEPTH: 80 ft bls GROUNDWATER DEPTH: ≈ 5 ft bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: V. Scott, J. Kiner, J. Smith LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
fine SAND with organics, 10YR 4/2 (dark grayish brown), dry, loose, moderately sorted		1, 2		
fine SAND, 2.5 Y 6/3 (light yellowish brown), wet at 5 ft bls, loose, moderately sorted; trace fines; trace fossils; trace medium sand		3, 4, 5, 6, 7, 8		
fine SAND with shells, 2.5 Y 6/3 (light brownish gray), wet, loose, (65% s, 35% fossil)		9, 10, 11, 12, 13		
fine SAND, 2.5 Y 6/3 (light brownish gray), wet, loose, moderately sorted; trace fossil		14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31		
fine SAND with shells, 2.5 Y 7/1 (light gray), wet, loose, poorly sorted, (55% s, 40% fossil, 5% f)		32, 33, 34		
fine SAND, 2.5 Y 7/1 (light gray), wet, loose, well sorted; trace fossil; trace medium grained SAND sand		35, 36, 37, 38, 39		

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BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB006 PROJECT NO.: FR1681 PAGE 2 OF 2

SITE: NASA - CRHE DATE: 12.20.11

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4"/6"

TOTAL DEPTH: 80 ft bls GROUNDWATER DEPTH: ≈ 5 ft bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: V. Scott, J. Kiewer, J. Smith LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
SHELL HASH with fine sand, coarse to gravel size bivalves, 2.5 Y 7/1 (light gray)		41 42 43 44 45 46 47 48 49 50 51		
SHELL HASH with fine sand, coarse to gravel size bivalves, GLEY1 7/1 (light greenish gray); trace clay, (80% fossil, 15% s, 5% fine)		52 53 54 55 56 57 58 59 60		
silty SAND, GLEY1 5/1 (greenish gray), wet, medium dense, (60% s, 35% f, 5% fossil); trace fossil; fining downward		61 62 63 64 65 66 67 68		
Clayey SILT, GLEY 1 5/1, mg (greenish gray), wet moist, stiff; trace fossil		69 70 71 72 73 74 75 76 77		
silty CLAY, GLEY 1 5/1 (greenish gray), moist, stiff, with fossils (80% f, 20% fossil)		78 79		

Boring terminates at 80 ft bls.

Geosyntec consultants

BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB0007 PROJECT NO.: FR1681 PAGE 1 OF 2

SITE: NASA - CRHE DATE: 12.20.11

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4" /6"

TOTAL DEPTH: 80 ft bls GROUNDWATER DEPTH: ≈ 6 ft bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR109

DRILLERS: V. Scott, J. Kiever, J. Smith LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
very fine-silty SAND with organics, 7.5 YR 4/2 (brown), dry		1 2 3 4		
Fine SAND, 2.5 Y 6/3 (light yellowish brown), wet at 6 ft bls, loose; trace fossil; trace fines		5 6 7		
fine SAND with shells, 2.5 Y 6/3 (light brownish gray), wet, loose, (65% s, 35% fossil)		8 9 10 11 12 13		
fine SAND, 2.5 Y 6/3 (light brownish gray), wet, loose, moderately sorted; trace fossil		14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		
fine SAND with shells, 2.5 Y 7/1 (light gray), wet, loose, poorly sorted, (85% s, 5% f, 10% fossil)		29 30 31 32		
fine SAND, 2.5 Y 7/1 (light gray), wet, loose, well sorted; trace fossil; trace medium grained sand		33 34 35 36 37 38 39		

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BORING LOG

BOREHOLE LOCATION MAP

BORING NO.: SB0007 PROJECT NO.: FR1681 PAGE 2 OF 2

SITE: NASA - CRHE DATE: 12.20.11

TOOLS AND METHOD: Sonic Drilling BIT DIA: 4"/6"

TOTAL DEPTH: 80 ft bls GROUNDWATER DEPTH: ≈ 6 ft bls

DRILLING COMPANY: Boart Longyear RIG: T300 Sonic SR159

DRILLERS: V. Scott, J. Kiever, J. Smith LOGGERS: J. McKinnon

LITHOLOGY LOG	GRAPHIC LOG	DEPTH SCALE	PID (ppm)	DRILLING LOG
		41		
		42		
		43		
		44		
		45		
		46		
SHELL HASH with fine sand, coarse to gravel size bivalves, 2.5 Y 7/1 (light gray)		47		
		48		
		49		
		50		
clayey SHELL HASH, GLEY 7/1 (light greenish gray)		51		
		52		
		53		
		54		
		55		
		56		
		57		
		58		
		59		
		60		
silty SAND, GLEY 1 5/1 (greenish gray), wet, medium dense, (60% s, 35% f, 5% fossil); trace fossil; fining downward		61		
		62		
		63		
		64		
		65		
		66		
		67		
		68		
		69		
clayey SILT, GLEY 1 5/1 (greenish gray), moist, stiff; trace fossil		70		
		71		
		72		
		73		
		74		
		75		
		76		
		77		
		78		
silty CLAY @ GLEY 1 5/1 (greenish gray), moist, stiff with fossils (80% f, 20% fossil)		79		

Boring terminated at 80 ft bls

GROUNDWATER
SAMPLING LOGS

Monitori Vell Sampling

Site: CHRE Project No.: FR1681 Task: 21*1 Date: 7-11-13 Sampled By: Rachel Donahue

Station (Well ID): MW0040 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) X Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): QED pump Purge Rate: ~0.1 gpm Water Quality Meter (Make & Model) 451 5526 mPS Water Level Meter: SOlinst

Time @ Start of Purging: 1024 Time @ End of Purging: 1046 Total Purging Time: ~~1046~~ 22 min Depth of Pump or Intake Tubing: 70 ft. (BTOC)
Rec 7/11

Water Level: 2.32 Total Well Depth: 75 Reference: TOC Well diameter: 2 in. Volume in well: 11.140

screen interval: 65-75 ft

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1024	Start	—	—	—	—	—	—	—	—	—	—
1034	~~0.5~~ 1.0	25.63	7.27	4.796	8.64	2.57	-61.9	6.57	3.131	clear	—
1037	~~1~~ 1.3	25.84	7.23	4.955	29.4	2.65	-83.1	0.51	3.222	clear	—
1040	~~1.5~~ 1.6	26.35	7.22	4.963	22.2	2.65	-89.9	0.44	3.228	clear	—
1042	~~2~~ 1.8	26.36	7.23	4.950	19.4	2.65	-92.6	0.43	3.220	clear	—
1044	~~2.5~~ 2.0	26.38	7.23	4.958	17.2	2.65	-92.9	0.42	3.221	clear	—
1046	~~3~~ 2.2	24.46	7.23	4.955	15.6	2.65	-92.0	0.40	3.221	clear	—

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CHRE-MW0040-0702-20130711 Time Collected: 1050 Comments: VOCs by Mobile lab

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)=~~0.3~~ gal

Monitoring Well Sampling

Site: KSC - CRHC Project No.: FA1651 Task: 174 Date: 3/21/2012 Sampled By: Beth / Geosyntec

Station (Well ID): IW0014I Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Cheapump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS 552 Water Level Meter: SoLinst

Time @ Start of Purging: 0840 Time @ End of Purging: 0904 Total Purging Time: 24 Depth of Pump or Intake Tubing: 40 ft. (BTOC)

Water Level: 4.50 Total Well Depth: 45' Reference: BTOC BGS Well diameter: 2 in. Volume in well: 6.6 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
0840	Start										4.50
0845	0.5	23.62	7.01	0.649	13.8	-	145.8	3.33	-	clear	
0850	1.0	23.66	6.87	0.696	7.16	-	104.8	0.90	-		
0855	1.5	23.75	6.56	0.706	5.11	-	96.4	0.82	-		
0900	2.0	23.85	6.89	0.711	3.25	-	89.6	0.61	-		
0902	2.2	23.86	6.90	0.713	2.86	-	85.9	0.56	-		
0904	2.4	23.92	6.90	0.715	4.86	-	87.2	0.54			
~~0906~~ (3rd)	~~2.6~~ (3rd)										
~~0908~~ (4th)	~~2.8~~ (4th)										
0910 (3rd)	3.0 (4th)										

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHC-IW0014I-03212012 Time Collected: 0905 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= 0.6 gal

Monitoring Well Sampling

Site: KSC - CRHE Project No.: FR1681 Task: 17#4 Date: 3-19-2012 Sampled By: Peter / Groundtec

Station (Well ID): IW0015I Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ~~__~~ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS 556 Water Level Meter: Solinst

Time @ Start of Purging: 1740 Time @ End of Purging: 1810 Total Purging Time: 30 min Depth of Pump or Intake Tubing: 45 ft. (BTOC)

Water Level: 4.42 Total Well Depth: ~~450~~ 450 (FB) Reference: BGS/BLS Well diameter: 2 in. Volume in well: ___

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1740	Start										
1745	0.5	24.65	8.24	1.575	6.47		-64.8	2.43			
1750	1	24.61	8.26	1.480	2.20		-89.1	2.20			
1755	1.5	24.69	7.87	1.465	1.77		-112.8	1.77			
1800	2	24.72	7.78	1.457	1.52		-115.1	1.52			
1805	2.5	24.67	7.76	1.452	1.42		-117.0	1.42			
1810	3	24.62	7.72	1.443	1.15		-112.0	1.15			

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHE-IW0015I-03192012 Time Collected: 1810 Comments: ___

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

Site: KSC - CCHE Project No.: FR1681 Task: 17*4 Date: 3-20-2012 Sampled By: L. Petty / Geosyntec

Station (Well ID): IW0071 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556MPS Water Level Meter: Solinst

Time @ Start of Purging: 1425 Time @ End of Purging: 1510 Total Purging Time: 25min Depth of Pump or Intake Tubing: 30 ft. (BTOC)

Water Level: 4.43 Total Well Depth: 35 (BTOC) (BGS) Reference: BTOC (BGS) Well diameter: 2 in. Volume in well: 5 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1425	Start										4.43
1450	0.5	23.87	7.72	1.256	23.4	-	-51.3	1.58	-	clear	
1455	1.0	23.86	7.60	1.314	48.0	-	-55.4	1.31	-	clear	
1500	1.0	23.91	7.56	1.289	26.3	-	-76.9	2.52	-	clear	
1502	1.2	23.99	7.63	1.297	16.9	-	-86.4	2.51	-		
1504	1.4	23.98	7.53	1.293	14.3	-	-89.9	2.47	-		
1506	1.6	23.93	7.47	1.290	16.5 (14.5)	-	-93.1	2.46	-		
1508	1.8	23.93	7.38	1.290	13.6	-	-92.4	2.51	-		
1510	2.0	23.97	7.35	1.275	13.2	-	-91.5	2.50	-		

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CCHE-IW0071-032012 Time Collected: 1510 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)=0.5 gal

Monitoring Well Sampling

Site: KSC NASA Project No.: FR1681 Task: 17#4 Date: 3-20-2012 Sampled By: Lauren Petty Geosyntec

Station (Well ID): 1400121 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Peristaltic Purge Rate: 0.5 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solinst 101

Time @ Start of Purging: 0910 Time @ End of Purging: 0940 Total Purging Time: 30min Depth of Pump or Intake Tubing: 40 ~~BTOC~~ ft. (BTOC)

Water Level: 4.52 Total Well Depth: 45' Reference: ~~BTOC~~ BLS Well diameter: 1 in. Volume in well: 1.7gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments Depth to H2O
0910	Start			2.995							4.52
0915	0.5	24.06	7.54	~~410.8~~	17.1	—	-~~108.8~~	0.52	—	clear	4.57
0920	1.0	24.13	7.36	2.739	14.3	—	-96.0	0.47	—	↓	↓
0925	1.5	24.11	7.35	2.719	13.2	—	-97.3	0.46	—	↓	↓
0930	2.0	24.14	7.28	2.510	9.54	—	-91.0	0.48	—	↓	↓
0935	2.5	24.14	7.27	2.406	7.37	—	-94.0	0.43	—	↓	↓
0940	3.0	24.17	7.14	2.330	7.13	—	-86.4	0.42	—	✓	✓

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CHG-1400121-032012 Time Collected: 0940 Comments: Analysis 8260B

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ~~0.9~~ 2.1 gal

Monitoring Well Sampling

Site: KSC NASA Project No.: FR1681 Task: 1764 Date: 3-19-12 Sampled By: Petty / Geosyntec

Station (Well ID): IW0020I Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS556 Water Level Meter: Solinst

Time @ Start of Purging: 1600 Time @ End of Purging: 1640 Total Purging Time: 40min Depth of Pump or Intake Tubing: 45 ft. (BTOC)

Water Level: 4.76 Total Well Depth: 50 Reference: BLS Well diameter: 1 in. Volume in well: ——

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1600	Start										
1605	0.5	25.04	8.05	1.710	~~8.27~~ 82.7		-115.7	1.14			
1610	1.0	24.95	7.99	1.679	50.5		-115.0	0.99			
1615	1.5	24.68	7.72	1.650	47.4		-115.7	0.84			
1620	2.0	24.89	7.65	1.671	52.5		-120.6	0.92			
1625	2.5	25.01	7.63	1.651	44.7		-125.9	0.80			
1630	3.0	24.96	7.59	1.650	28.9		-126.7	0.75			
1635	3.5	24.95	7.59	1.648	27.0		-127.2	0.72			
1640	4.0	25.05	7.59	1.649	26.1		-126.1	0.71			

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CAHE-IW0020I-03192012 Time Collected: 1640 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

Site: CRHR Project No.: FR1681 Task: ~~17#3~~ 17#4 Date: 3/20/12 Sampled By: D. Sizemore

Station (Well ID): IW21I Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: .07 gpm Water Quality Meter (Make & Model) ~~YSI 556~~ YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 1055 Time @ End of Purging: 1123 Total Purging Time: 28 Depth of Pump or Intake Tubing: 45 ft. (BTOC)

Water Level: ~~5.68~~ 2.15 Total Well Depth: 50 Reference: TOC Well diameter: 1 in. Volume in well: ~

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1102	~~Start~~ 0.5	25.63	7.12	2.034	16.9	1.04	-90.8	1.47	1.32	Clear	
1109	1.0	25.70	7.10	2.035	17.0	1.05	-95.0	1.12	1.32	"	
1116	1.5	25.65	7.10	2.035	15.1	1.05	-96.1	0.91	~~1.32~~	"	
1123	2.0	25.70	7.12	2.036	9.4	1.05	-100.2	0.73	1.32	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: ~~DUP~~ IW21I Time Collected: 1123 Comments: 8260

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___ gal

.0026 • 45 + .5 = .61

Monitoring Well Sampling

Site: KSC-CRHE Project No.: FR1641 Task: 1754 Date: 03-21-12 Sampled By: Petty/Geosyntec

Station (Well ID): MW0022 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556 MPS Water Level Meter: Solinst

Time @ Start of Purging: 1445 Time @ End of Purging: 1505 Total Purging Time: 20 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

Water Level: 3.82 Total Well Depth: 70.1 Reference: BTOC BGS Well diameter: 1 in. Volume in well: 2.7 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1445	Start										3.82
1450	0.5	25.57	7.06	1.409	14.5	—	-23.9	0.93	—	Clear	
1455	1.0	25.54	7.55	1.445	11.5	—	-45.1	0.70	—		
~~1500~~ 1457	~~1.5~~ 1.2	25.50	7.90	1.449	6.41	—	-43.1	0.65	—		
~~1.5~~ 1459	1.4	25.52	7.81	1.501	4.64	—	-41.0	0.62	—		
1501	1.6	25.54	7.64	1.535	3.49	—	-44.5	0.57	—		
1503	1.8	25.55	7.62	1.536	3.38	—	-44.1	0.56	—		
1505	2.0	25.55	7.63	1.536	3.40	—	-42.1	0.58	—	↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHE-MW0022-032112 Time Collected: 1505 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= 0.6 gal

Monitoring Well Sampling

Site: KSC NASA Project No.: FR1681 Task: 1754 Date: 3-19-12 Sampled By: Petty / Geosyntec

Station (Well ID): MW0023 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS556 Water Level Meter: Solinst

Time @ Start of Purging: 1405 Time @ End of Purging: 1440 Total Purging Time: 35 min Depth of Pump or Intake Tubing: 65 ft. (BTOC)

Water Level: 4.76 Total Well Depth: 70 Reference: BLS Well diameter: 2 in. Volume in well: ——

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1405	Start										
1410	0.5	24.52	9.21	2.327	7.49		-36.0	1.10		Clear	
1415	1.0	24.46	9.22	2.369	1.88		-45.7	9.6			
1420	1.5	24.53	9.53	2.420	1.14		-67.7	7.2			
1425	2.0	24.49	9.02	2.692	1.11		-202.3	0.64			
1430	2.5	24.34	8.38	2.995	0.82		-201.2	0.48			
1435	3.0	24.43	8.13	3.243	1.94		-180.8	0.55			
1440	3.5	24.48	7.98	3.336	1.70		-180.6	0.46		✓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRTC-MW0023-03192012 Time Collected: 1440 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

Site: KSC-CRHE Project No.: FR1691 Task: 1764 Date: 3-21-12 Sampled By: Beth / Cross Match

Station (Well ID): MW0024 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 6820 MPS Water Level Meter: Solinst

Time @ Start of Purging: 1720 Time @ End of Purging: 1750 Total Purging Time: 30min Depth of Pump or Intake Tubing: 10 ft. (BTOC)

Water Level: 3.31 Total Well Depth: 15' Reference: BTOC BGS Well diameter: 1 in. Volume in well: 0.5 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1720	Start				355						
1725	0.5	22.79	7.70	0.453	~~35.5~~ NT	-	46.9	3.59	-	Cloudy	
1730	1.0	22.79	7.25	0.395	129	-	5.4	2.54	-	↓	
1735	1.5	22.60	7.50	0.357	60.5	-	-4.2	0.75	-	↓	
1740	2.0	22.60	7.27	0.348	29.2	-	-9.2	0.67	↓	Clear	
1742	2.2	22.59	7.22	0.347	24.8	-	-9.6	0.67	↓	↓	
1744	2.4	22.52	7.24	0.345	23.0	-	-8.6	0.69	↓	↓	
1746	2.6	22.53	7.21	0.336	21.7	-	~~2.5~~ 6.7	0.66	↓	↓	
1748	2.8	22.57	7.18	0.336	16.0	-	5.7	0.66	↓	↓	
1750	3.0	22.54	7.18	0.336	15.0	-	6.3	0.66	↓	↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHE-MW0024-032112 Time Collected: 1750 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= 0.5 gal

Monitoring Well Sampling

Site: KSC CRHE Project No.: FR1691 Task: 7454 Date: 3-21-2012 Sampled By: Petty / Geosyntec

Station (Well ID): MW0025 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.6 gpm Water Quality Meter (Make & Model) YSI ~~650~~ 556 MPS Water Level Meter: Solinst

Time @ Start of Purging: 1755 Time @ End of Purging: 1825 Total Purging Time: 30 min Depth of Pump or Intake Tubing: 30 ft. (BTOC)

Water Level: 3.39 Total Well Depth: 35' Reference: ~~BTOC~~ BGS Well diameter: 1 in. Volume in well: 1.3 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1755	Start										3.39
1800	0.5	23.22	7.26	0.441	109.7	—	-70.7	1.57	—	cloudy	
1805	1.0	23.40	7.36	0.477	30.3	—	-63.6	0.42	—	↓	
1810	1.5	23.35	7.35	0.495	78.8	—	-59.9	0.39	—	clear	
1815	2.0	23.43	7.26	0.504	34.8	—	-50.9	0.41	—	↓	
~~1817~~	~~2.2~~	2	—	—	—	—	—	—	—	—	
~~1819~~	~~2.4~~	—	—	—	—	—	—	—	—	—	
1821	2.6	23.36	7.24	0.507	21.2	—	-47.0	0.30	—	clear	
1823	2.9	23.39	7.22	0.506	13.2	—	-37.8	0.27	—	↓	
1825	3.0	23.42	7.23	0.509	12.2	—	-39.6	0.25	—	↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHE-MW0025-032112 Time Collected: 1830 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= 0.6 gal

Monitoring Well Sampling

Site: CRHC - KSC Project No.: FR1681 Task: 1744 Date: 3-21-12 Sampled By: Petty / Geosolutec

Station (Well ID): MW0026 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556 MPS Water Level Meter: Solinst

Time @ Start of Purging: 1115 Time @ End of Purging: 1155 Total Purging Time: 40min Depth of Pump or Intake Tubing: 35 ft. (BTOC)

Water Level: 3.61 Total Well Depth: 40' Reference: BTOC BLS Well diameter: 1 in. Volume in well: 1.5 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1115	Start										3.61
1120	0.5	24.30	7.50	0.639	994	–	65.2	0.37	–	cloudy	
1125	1.0	24.39	7.40	0.620	E6	–	-84.0	0.24	–		
1130	1.5	24.33	7.35	0.609	990	–	-71.6	023	–		
1135	2.0	24.34	7.31	0.608	197	–	-37.4	0.21	–		
1137	2.2	24.32	7.29	0.607	113	–	-33.0	0.20	–		
1139	2.4	24.34	7.29	0.606	92.5	–	-38.4	0.20	–	↓	
1141	2.6	24.18	7.25	0.602	52.3	–	-56.7	0.20	–	Clear	
1143	2.8	24.24	7.25	0.602	43.3	–	-70.3	0.20	–		
1145	3.0	24.15	7.24	0.603	36.7	–	-69.4	0.20	–		
1150	3.5	24.08	7.23	0.602	21.5	–	-69.2	0.20	–		
1155	4.0	24.11	7.22	0.602	14.2	–	-69.3	0.20	–	↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHC-MW0026-032112 Time Collected: 1200 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___gal

Monitoring Well Sampling

Site: KSC-CRHE Project No.: FR4681 Task: 1754 Date: 3-21-12 Sampled By: Petty / Geosyntec

Station (Well ID): MW0027 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556MPS Water Level Meter: Solinst

Time @ Start of Purging: 1515 Time @ End of Purging: 1545 Total Purging Time: 30Min Depth of Pump or Intake Tubing: 35 45 ft. (BTOC)

Water Level: 3.76 Total Well Depth: ~~40~~ 50' Reference: ~~BTOC~~ BLS Well diameter: 1 in. Volume in well: 1.9gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1315 1515	Start										3.76
1320 1520	0.5	25.72	7.58	0.953	266	–	-10.5	0.68	–	cloudy	
1325 1525	1.0	25.49	7.44	0.928	89.7	–	-15.7	0.54	–	↓	
1330 1530	1.5	25.57	7.43	0.921	69.1	–	-22.7	0.53	–	↓	
1332 1532	1.7	25.51	7.39	0.910	54.1	–	-29.2	0.48	–	clear	
1334 1534	1.9	25.40	7.32	0.899	46.9	–	-29.6	0.45	–	↓	
1336 1536	2.1	25.48	7.31	0.899	42.3	–	-33.4	0.42	–		
1338 1538	2.3	25.49	7.31	0.898	41.0	–	-34.2	0.41	–		
1342 1540	2.5	25.52	7.31	0.900	36.0	–	-33.5	0.41	–	↓	
(3) 1545	3.0	25.59	7.31	0.902	~~35~~ 35.1	–	-30.2	0.40	–		

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHE-MW0027-032112 Time Collected: 1545 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

Site: KSC - CRHC Project No.: FR1681 Task: 17K4 Date: 3-20-12 Sampled By: Petty / Grosynta

Station (Well ID): MW0029 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556MPS Water Level Meter: Solinst

Time @ Start of Purging: 1345 Time @ End of Purging: 1420 Total Purging Time: 35 Depth of Pump or Intake Tubing: 40' ft. (BTOC)

Water Level: 4.84 Total Well Depth: 45' ~~BTOC~~ (BLS) Reference: ~~TOC~~ BLS Well diameter: 1 in. Volume in well: 1.6 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1345	Start										
1350	0.5	24.06	7.63	1.467	171.	–	-139.8	0.76	–	cloudy	
1355	1.0	24.10	7.59	1.435	66.8	–	-136.3	0.71	–	↓	
1400	1.5	24.09	7.43	1.384	40.4	–	-138.1	0.78	–	slight	
1405	2.0	24.11	7.41	1.376	37.0	–	-125.7	0.76	–		
1410	2.5	24.28	7.32	1.372	27.6	–	-157.4	0.35	–		
1413	2.8	24.47	7.38	1.366	23.5	–	-162.4	0.33	–		
1416	3.1	24.47	7.38	1.367	17.5	–	-162.9	0.31	–		
~~1420~~ 1420	3.5	24.47	7.58	1.369	18.4	–	-165.2	0.30	–	↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" ~~use~~ 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHC-~~IW0~~ MW0029-03202012 Time Collected: 1420 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= 0.6 gal

Monitoring Well Sampling

Site: CSC-CRHE Project No.: FR1681 Task: 7#4 Date: 3-21-2012 Sampled By: Patty / Geosyntec

Station (Well ID): MW0029 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI 556 MPS Water Level Meter: Solinst

Time @ Start of Purging: 1025 Time @ End of Purging: 1055 Total Purging Time: 30 min Depth of Pump or Intake Tubing: 45 ft. (BTOC)

Water Level: 3.71 Total Well Depth: ~~45~~ 50' Reference: ~~BTOC~~ TOC (40) MLS Well diameter: 1 in. Volume in well: 1.9 gal

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1025	Start										3.71
1030	0.5	24.43	7.53	1.152	215	-	3.8	2.38	-	cloudy	
1035	1.0	24.53	7.36	1.129	314	-	9.5	0.53	-		
1040	1.5	24.68	7.30	1.122	58.7	-	9.2	0.43	-		
1045	2.0	24.63	7.27	1.108	26.3	-	5.6	0.39	-		
1047	2.2	24.66	7.25	1.100	14.6	-	3.8	0.36	-		
1049	2.4	24.67	7.25	1.102	10.5	-	3.6	0.35	-	clear	
1051	2.6	24.68	7.25	1.101	7.25	-	3.1	0.34	-		
1053	2.8	24.46	7.25	1.094	5.01	-	1.2	0.31	-		
1055	3.0	24.48	7.22	1.092	4.98	-	1.1	0.30	-		

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRHE-MW0029-03212012 Time Collected: 1107 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= 0.6 gal

Monitoring Well Sampling

Site: KSC NASA Project No.: FR1681 Task: 1784 Date: 3-19-12 Sampled By: Petty / Geosyntec

Station (Well ID): MW0030 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS 556 Water Level Meter: Solinst

Time @ Start of Purging: 1135 Time @ End of Purging: 1205 Total Purging Time: 30min Depth of Pump or Intake Tubing: 10 ft. (BTOC)

Water Level: 4.64 Total Well Depth: 15 Reference: BLS Well diameter: 1 in. Volume in well: ——

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1135	Start										
1140	0.5	23.87	7.25	1.324	138		-133.7	0.54		brown	
1145	1.0	23.85	7.25	1.324	30.7		-133.3	0.56		↓	
1150	1.5	23.67	7.29	1.310	29.1		-132.5	0.44		clear	
1155	2.0	23.84	7.21	1.308	30.5		-126.4	0.43			
1200	2.5	23.80	7.22	1.306	25.0		-123.6	0.41			
1205	3.0	23.65	7.24	1.295	24.5		-122.8	0.37		↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CRTG-MW0030-031912 Time Collected: 1205 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

Site: KSC NASA Project No.: FR1681 Task: 1784 Date: 3-19-2012 Sampled By: Petty / Geosyntec

Station (Well ID): MW0031 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS 556 Water Level Meter: Solinst

Time @ Start of Purging: 1455 Time @ End of Purging: 1525 Total Purging Time: 30Min Depth of Pump or Intake Tubing: 45 ft. (BTOC)

Water Level: 4.43 Total Well Depth: 50 Reference: BLS Well diameter: 1 in. Volume in well: ——

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1455	Start										
1500	0.5	24.89	7.69	3.245	27.9		-105.6	0.54			
1505	1.0	25.00	7.51	3.186	10.2		-110.0	0.71			
1510	1.5	25.00	7.40	3.188	6.71		-119.3	0.75			
1515	2.0	25.16	7.41	3.182	5.73		-121.2	0.59			
1520	2.5	25.17	7.52	3.190	6.01		-120.6	0.56			
1525	3.0	24.71	7.53	3.108	8.72		-121.3	0.54			

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CBHG-MW0031-03192012 Time Collected: 1525 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

Site: KSC NASA Project No.: FR1681 Task: 1754 Date: 3-19-2012 Sampled By: Petty / Geosyntec

Station (Well ID): MW0032 Purge Method: Pump Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: 0.1 gpm Water Quality Meter (Make & Model) YSI MPS 556 Water Level Meter: Solinst

Time @ Start of Purging: 1020 Time @ End of Purging: 1100 Total Purging Time: 40 min Depth of Pump or Intake Tubing: 45 ft. (BTOC)

Water Level: 5.07 Total Well Depth: 50 Reference: BLS Well diameter: 1 in. Volume in well: ——

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1020	Start										
1025	0.5	25.86	7.11	2.056	7999		—	1.63		Cloudy	
1030	1.0	25.95	7.19	2.111	104		—	1.44		↓	
1035	1.5	25.71	7.20	2.194	67.1		-139.6	1.05			
1040	2.0	26.10	7.24	2.334	33.5		-137.4	0.95			
1045	2.5	26.28	7.29	2.385	21.0		-158.4	0.97			
1050	3.0	25.85	7.30	2.345	15.5		-172.8	0.86		↓	
1055	3.5	26.20	7.42	2.340	13.6		-178.9	0.79		Clear	
1100	4.0	26.21	7.39	2.357	12.2		-172.9	0.75		↓	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: CAPE-MW0032-03192012 Time Collected: 1100 Comments: _____

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow tru vol)= ___gal

Monitoring Well Sampling

1744

Site: CRHR Project No.: FR1681 Task: ~~1745~~ (RD) Date: 3/20/12 Sampled By: D. Sizemore

Station (Well ID): MW33 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic Centrifugal ___ Bladder

Pump (Make & Model): G-20pump Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 940 Time @ End of Purging: 1017 Total Purging Time: 28 min Depth of Pump or Intake Tubing: ~~48.5~~ 45 ft. (BTOC)

Water Level: 5.68 Total Well Depth: 50 Reference: BLS Well diameter: 1 in. Volume in well: ___

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
956	~~Start~~ .5	24.79	7.24	1.953	257	.75	-197.3	.29	.92	White	
1003	1.0	25.02	7.35	1.955	16.4	.63	-205.1	.12	.93	Clear	
1010	1.5	25.00	7.36	1.955	14.9	.63	-205.0	.10	.94	"	
1017	2.0	25.05	7.37	1.955	13.9	.63	-206.1	.15	.94	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ½ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW33 Time Collected: ~~949~~ 1017 Comments: 8260 3.0'

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___gal

.0026 • 48.5 ≈ .5 = .63

TOC is ~~3.5'~~ Above Grade

~~TOC is 3.5 Above Grade~~ only

Monitoring Well Sampling

Site: CH2E Project No.: FR1681 Task: ~~17#3~~ 1764 WP Date: 3/20/12 Sampled By: D. Sicamore

Station (Well ID): MW34 Purge Method: Pump Bailer Pump Type: __ Submersible __ Teflon __ SS __ Other) ✓ Peristaltic __ Centrifugal __ Bladder

Pump (Make & Model): Geopump Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 909 Time @ End of Purging: 937 Total Purging Time: 28minutes Depth of Pump or Intake Tubing: 38.5 ft. (BTOC)

Water Level: 4.92 Total Well Depth: 40 Reference: bLs Well diameter: 1 in. Volume in well: ____

Time (hrs)	Cumulative Purge Volume (gal) DNS	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
916	~~Start~~ .5	23.78	7.51	1.593	>1000	.69	-197.3	.92	.90	White	
923	1.5	23.74	7.52	1.595	19.1	.69	-205.4	.69	.90	Clear	
930	2.0	23.75	7.55	1.595	12.4	.69	-209.3	.70	.90	"	
937	2.5	23.80	7.55	1.595	16.8	.69	-210.1	.62	.90	"	

Correction Factors: (2"-use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp. pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW34 Time Collected: 937 Comments: 816

When using 3/16-in. ID tubing FV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___gal

.0026 • 38.5 + .5 = .6

3' Above-Grade Completion

Monitoring Well Sampling

Site: CRHR Project No.: ~~FR1660-5~~ FR1601 Task: ~~1743~~ 1744 Date: 3/20/12 Sampled By: D. Sizemore

Station (Well ID): MW35 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon _ SS __ Other) L Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): G20 pump Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 1343 Time @ End of Purging: 1411 Total Purging Time: 20 min Depth of Pump or Intake Tubing: 40' ft. (BTOC)

Water Level: 4.97 Total Well Depth: 45 Reference: BLS Well diameter: 1 in. Volume in well: ~~1~~

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1350	~~Start~~ .5	25.00	7.25	2.004	390	.87	-109.1	1.23	1.24	Cloudy	
1357	1.0	25.13	7.25	2.009	19.3	.87	-109.5	.24	1.25	Clear	
1404	1.5	25.15	7.25	2.009	13.9	.87	-110.5	.23	1.25	"	
1411	2.0	25.10	7.26	2.010	12.5	.89	-111.9	.25	1.25	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes: Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW35 Time Collected: 1411 Comments: 8260

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___gal

.0026 • 40 + .5 = .6

Monitoring Well Sampling

Site: CRHR Project No.: FR1681 Task: ~~1743~~ 1744 Date: 3/20/12 Sampled By: D. Sizemore

Station (Well ID): mw36 Purge Method: (Pump) Bailer Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Geopump Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 1453 Time @ End of Purging: 1521 Total Purging Time: 28 min Depth of Pump or Intake Tubing: 10 ft. (BTOC)

Water Level: 4.62 Total Well Depth: 15 Reference: BEC Well diameter: 1 in. Volume in well: _____

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1500	~~Start~~ 5	25.12	7.03	0.623	104	.37	-71.1	.75	.59	Clear	
1507	1.0	25.11	7.10	0.631	12.9	.37	-75.6	.22	.60	"	
1514	1.5	25.12	7.14	0.631	13.0	.37	-69.7	.22	.60	"	
1521	2.0	25.13	7.15	0.631	11.5	.37	-70.5	.19	.60	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: mw36 Time Collected: 1521 Comments: 8260

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___gal

.53

Monitoring Well Sampling 1764

Site: CRHR Project No.: FR1687 Task: ~~D&C~~ WP Date: 3/20/12 Sampled By: D. Silemore

Station (Well ID): mw37 Purge Method: Pump Bailer Pump Type: __ Submersible (__ Teflon __ SS __ Other) ✓ Peristaltic __ Centrifugal __ Bladder

Pump (Make & Model): GeoPump Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solinst

Time @ Start of Purging: ~~1425~~ 1420 Time @ End of Purging: 1441 Total Purging Time: 21 min Depth of Pump or Intake Tubing: 30 ft. (BTOC)

Water Level: 4.75 Total Well Depth: 35 Reference: TOC Well diameter: 1 in. Volume in well: ———

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1427	~~Start~~ .5	25.11	7.73	0.356	19.7	.81	-141.2	1.03	1.03	Clear	
1434	1.0	25.12	7.75	0.360	11.4	.82	-142.0	.90	.95	"	
1441	1.5	25.10	7.75	0.361	12.13	.81	-143.5	.73	~~.96~~ .98	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: mw37 Time Collected: 1441 Comments: 8260

When using 3/16-in. ID tubing EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= ___gal

.026 • 30 + .5 = .50

Monitoring Well Sampling

Site: CRHE Project No.: FR1681 Task: ~~1754~~ 1764 Date: 3/~~20~~19/12 Sampled By: D. Szenore

Station (Well ID): MW 38 Purge Method: Pump ~~Bailer~~ Bailer ☐ Pump Type: ___ Submersible (__ Teflon __ SS __ Other) ~~Peristaltic~~ Peristaltic ___ Centrifugal ___ Bladder

Pump (Make & Model): Grundfos Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 1743 Time @ End of Purging: 1872 Total Purging Time: ___ Depth of Pump or Intake Tubing: 10 ft. (BTOC)

Water Level: ~~10~~ 5.00 Total Well Depth: ~~18~~ 15' Reference: TOC Well diameter: 1 in. Volume in well: ___

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1750	~~Start~~ 0	24.09	7.29	.852	695	.70	-225.9	1.59	.91	Cloudy	
1757	1.0	24.01	7.35	.856	420	.70	-232.6	1.60	.91	"	
1804	1.5	24.10	7.49	.856	253	.70	-232.0	1.61	.92	"	
1811	2.0	23.99	7.49	.859	104	.70	-239.6	1.62	.92	Clear	
1818	2.5	24.02	7.50	.859	63	.70	-240.1	1.16	.93	Clear	
1825	3.0	24.04	7.50	.860	59	.70	-240.0	1.19	.93	"	
1832	3.5	24.05	7.51	.860	60	.70	-240.3	1.00	.93	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs

If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater

For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

~~Duplicate~~

Sample ID: MW38 Time Collected: 1837 Comments: 8260

When using 3/16-in. ID tubing EV= ((0.041) ~~(0.026~~ tubing length))+0.5(flow thru vol)= ___gal

1¼" Tubing 10 · .0026 + .5 = .53

Monitoring Well Sampling

Site: CRHS Project No.: FR1681 Task: ~~1774~~ 1779 Date: 3/19/12 Sampled By: D. Sizemore

Station (Well ID): MW39 Purge Method: Pump ☒ Bailer ☐ Pump Type: __ Submersible (__ Teflon __ SS __ Other) Peristaltic ☒ Centrifugal __ Bladder

Pump (Make & Model): Geopump Purge Rate: .07 gpm Water Quality Meter (Make & Model) YSI 556 Water Level Meter: Solonist

Time @ Start of Purging: 1704 Time @ End of Purging: 1739 Total Purging Time: 35min Depth of Pump or Intake Tubing: 30 ft. (BTOC)

Water Level: 4.73 Total Well Depth: 35 Reference: TOC Well diameter: 1 in. Volume in well: ——

Time (hrs)	Cumulative Purge Volume (gal)	Temp (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Salinity (%)	ORP (mV)	DO (mg/L)	TDS (g/L)	Color	Comments
1711	~~Start~~ .5	25.12	7.16	1.554	67.9	.68	-169.1	1.13	.95	Clear	
1718	1.0	25.4	7.21	1.595	68.3	.70	-170.2	0.75	93	"	
1725	1.5	25.20	7.22	1.601	19.3	.71	-172.3	.76	.95	"	
1732	2.0	25.21	7.23	1.603	11.9	.71	-173.4	.24	.95	"	
1739	2.5	25.23	7.25	1.604	12.5	.71	-175.6	.19	.95	"	

Correction Factors: (2" use 0.163, 4" use 0.653, 6" use 1.469)

Note: When purging well with pump or intake tubing within the well screen, purge minimum of 1 equipment volume prior to first field parameter measurements. Take additional field parameter measurements no sooner than 2 to 3 minutes apart, must purge minimum of 3 equipment volume + stabilized field parameters for sampling.

Note: When purging a well with well screen fully submerged and pump or intake tubing is placed in water column above the screened zone, purge minimum of one well volume prior to collecting first field parameter measurements. Take additional field parameter measurements every ¼ well volume until purging requirements are satisfied.

Note: Three (3) consecutive readings within specified limits are to be obtained for sampling. Temperature: ± 0.2 °C; pH: ±0.2 standard units; Specific Conductance: ± 5.0% of reading; DO is no greater than 20% saturation at field measured temperature; and Turbidity ≤ 20 NTUs
If DO or Turbidity measurements cannot meet the above requirements within 5 well volumes; Temp, pH, Conductivity ranges remain unchanged, however, DO and turbidity must meet the following: DO ± 0.2 mg/L or 10%, whichever is greater; and Turbidity ± 5 NTUs or 10%, whichever is greater
For high turbidity and DO, check flow through cell for air bubbles, which may be causing erroneous readings. Turbidity should be verified visually and with a separate Turbidity meter (if available). All attempts should be made to get the parameters within the specified limits. Check water quality meter calibration before using again.

Sample ID: MW39 Time Collected: 1739 Comments: 8260

~~When using 3/16-in. ID tubing~~ EV= ((0.041) (0.035x tubing length))+0.5(flow thru vol)= __gal

.0026 • 30 + .5 = .58

APPENDIX L

SURVEY DATA
(electronic copy only)

KUGELMANN LAND SURVEYING, INC
30 N. TROPICAL TRL, SUITE B
MERRITT ISLAND, FL 32953
PH: (321) 459-0930
FAX: (321) 459-9413
klsinc@cfl.rr.com

GEOSYNTEC CONSULTANTS
CRHE @ KENNEDY SPACE CENTER
MARCH 17, 2012

NORTHING (M)	EASTING (M)	TOC (FT)	GND (FT)	DESC	ID
469494.640	233954.520	4.60	4.8	MW	MW0022
469514.365	233845.518	5.45	5.6	MW	MW0023
469488.302	234005.338	4.00	4.3	MW	MW0024
469488.293	234004.717	4.16	4.3	MW	MW0025
469496.317	233975.070	4.36	4.6	MW	MW0026
469494.541	233955.135	4.51	4.8	MW	MW0027
469631.506	233954.678	5.58	5.7	MW	MW0028
469507.385	233904.902	4.56	4.7	MW	MW0029
469514.354	233844.760	5.26	5.5	MW	MW0030
469514.377	233844.223	5.17	5.5	MW	MW0031
469546.807	233882.497	5.78	6.1	MW	MW0032
469550.476	233784.377	6.35	2.8	MW	MW0033
469647.673	233792.588	5.40	2.5	MW	MW0034
469576.553	233717.764	5.34	5.3	MW	MW0035
469666.000	233717.581	4.92	5.0	MW	MW0036
469666.513	233717.509	5.07	5.0	MW	MW0037
469574.538	233668.662	3.23	3.2	MW	MW0038
469573.936	233668.678	3.22	3.2	MW	MW0039

ABBREVIATIONS

TOC =	TOP OF CASING
EL =	ELEVATION
GND =	GROUND
DESC =	DESCRIPTION
ID =	IDENTIFICATION
MW =	MONITORING WELL
(M) =	METERS
(FT) =	FEET

SURVEYOR'S NOTES:

1. THE PURPOSE OF THIS SURVEY IS TO DETERMINE THE HORIZONTAL AND VERTICAL POSITION OF GROUND WATER MONITORING WELLS.
2. THE COORDINATES DEPICTED HEREON ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), 1990 ADJUSTMENT AND ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENT 'WRIGHT', HAVING PUBLISHED COORDINATES OF NORTH 1544816.33 AND EAST 768783.06 FEET.
3. THE ELEVATIONS DEPICTED HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENT 'WRIGHT', HAVING AN PUBLISHED ELEVATION OF 7.45 FEET.
4. THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT(S) SHOWN HEREON

APPENDIX M

LABORATORY DATA
(electronic copy only)

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 367-0073**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

August 10, 2009

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, Florida 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 09-107

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from June 21 to August 6 2009. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form. This information will also be sent electronically.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From June 21 to August 6, 2009, a total of 195 water samples were analyzed for GeoSyntec Consultants at NASA CHRE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHEA-DPT0019-038.0 reported 1,1,dichloroethene 1.0 changed to <1.0ug/L.

3. Changes for sample ID CRHEA-DPT0020-018.0 reported analytes <1.0 changed to <10ug/L.

4. Changes for sample ID CRHE-DPT0033-043.0 reported:
   1,1-dichloroethene 3.6 changed to 18ug/L.
   t-1,2-dichloroethene 14 changed to 72ug/L.
   trichloroethene <1.3 changed to <5.0ug/L.

5. Changes for sample ID CRHE-DPT0034-043.0 all analytes reported <1.0 changed to <2.0ug/L.

6. Changes for sample ID CRHE-DPT0036-038.0 reported:

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1,1-dichloroethene <45 changed to <100ug/L.
trichloroethene <26 changed to <100ug/L.
tetrachloroethene <18 changed to <100ug/L.

7. Changes for sample ID CRHE-DPT0036-043.0 reported trichloroethene and tetrachloroethene <1.0 changed to <2.0ug/L.

8. Values between KB Labs Reporting Limit (RL) and Method Detection Limit (MDL) are indicated with a “I” Data Qualifier.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 1	06/21/09	110	104	98	102	Pass	Pass	Pass	Pass
VSTD 5	06/21/09	107	108	93	99	Pass	Pass	Pass	Pass
VSTD 10	06/21/09	110	105	103	105	Pass	Pass	Pass	Pass
RSTD 20	06/21/09	104	97	102	98	Pass	Pass	Pass	Pass
VSTD 30	06/21/09	99	100	106	98	Pass	Pass	Pass	Pass
VSTD 50	06/21/09	56	69	107	82	< LCL	Pass	Pass	Pass
VSTD 100	06/21/09	94	112	101	98	Pass	Pass	Pass	Pass
BLANK	06/21/09	105	102	98	98	Pass	Pass	Pass	Pass
RSTD 50	06/22/09	82	79	103	97	Pass	Pass	Pass	Pass
LCS 50	06/22/09	81	94	107	103	Pass	Pass	Pass	Pass
BLANK	06/22/09	78	95	99	98	Pass	Pass	Pass	Pass
CRHEA-DPT0017-010.0	06/22/09	74	96	97	100	Pass	Pass	Pass	Pass
CRHEA-DPT0017-018.0	06/22/09	73	93	94	96	Pass	Pass	Pass	Pass
CRHEA-DPT0017-028.0	06/22/09	74	94	98	94	Pass	Pass	Pass	Pass
CRHEA-DPT0017-038.0	06/22/09	73	108	94	102	Pass	Pass	Pass	Pass
CRHEA-DPT0017-043.0 1:5	06/22/09	70	108	99	106	Pass	Pass	Pass	Pass
CRHEA-DPT0017-063.0	06/22/09	71	115	95	98	Pass	Pass	Pass	Pass
CRHEA-DPT0017-048.0	06/22/09	65	107	93	96	Pass	Pass	Pass	Pass
CRHEA-DPT0018-010.0	06/22/09	58	96	92	91	< LCL	Pass	Pass	Pass
CRHEA-DPT0018-018.0	06/22/09	64	108	95	95	Pass	Pass	Pass	Pass
CRHEA-DPT0018-028.0	06/22/09	62	88	88	96	Pass	Pass	Pass	Pass
CRHEA-DPT0018-038.0 1:5	06/22/09	69	84	93	98	Pass	Pass	Pass	Pass
CRHEA-DPT0018-043.0 1:5	06/22/09	67	77	97	96	Pass	Pass	Pass	Pass
CRHEA-DPT0018-048.0	06/22/09	65	73	98	95	Pass	Pass	Pass	Pass
CRHEA-DPT0018-063.0	06/22/09	71	76	95	99	Pass	Pass	Pass	Pass
CRHEA-DPT0017-038.0 1:5	06/22/09	67	80	92	102	Pass	Pass	Pass	Pass
CRHEA-DPT0018-048.0 1:5	06/22/09	71	85	95	100	Pass	Pass	Pass	Pass
CRHEA-DPT0019-010.0	06/22/09	73	84	93	97	Pass	Pass	Pass	Pass
CRHEA-DPT0019-018.0	06/22/09	66	78	92	100	Pass	Pass	Pass	Pass
CRHEA-DPT0019-028.0	06/22/09	71	81	92	94	Pass	Pass	Pass	Pass
CRHEA-DPT0019-038.0	06/22/09	63	72	90	95	Pass	Pass	Pass	Pass
CRHEA-DPT0019-043.0 1:5	06/22/09	71	81	96	98	Pass	Pass	Pass	Pass
CRHEA-DPT0019-048.0 1:5	06/22/09	64	72	96	101	Pass	Pass	Pass	Pass
CRHEA-DPT0019-063.0	06/22/09	66	79	95	97	Pass	Pass	Pass	Pass
CRHEA-DPT0019-010.0 MS	06/22/09	69	97	97	98	Pass	Pass	Pass	Pass
CRHEA-DPT0019-010.0 MSD	06/22/09	64	96	96	100	Pass	Pass	Pass	Pass
CCS 20	06/22/09	66	99	101	98	Pass	Pass	Pass	Pass
CCS 20	06/23/09	87	94	98	105	Pass	Pass	Pass	Pass
LCS 20	06/23/09	80	85	99	100	Pass	Pass	Pass	Pass
BLANK	06/23/09	65	97	106	100	Pass	Pass	Pass	Pass
CRHEA-DPT0020-010.0	06/23/09	61	99	91	97	Pass	Pass	Pass	Pass
CRHEA-DPT0020-018.0 1:10	06/23/09	62	99	106	104	Pass	Pass	Pass	Pass
CRHEA-DPT0020-028.0	06/23/09	63	84	101	102	Pass	Pass	Pass	Pass
CRHEA-DPT0020-038.0 1:5	06/23/09	63	99	103	106	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHEA-DPT0020-043.0 1:5	06/23/09	60	77	99	101	< LCL	Pass	Pass	Pass
CRHEA-DPT0020-048.0	06/23/09	68	102	97	98	Pass	Pass	Pass	Pass
CRHEA-DPT0020-038.0 1:10	06/23/09	67	104	101	98	Pass	Pass	Pass	Pass
CRHEA-DPT0020-063.0	06/23/09	64	99	94	98	Pass	Pass	Pass	Pass
CRHEA-DPT0020-010.0 MS	06/23/09	73	105	97	94	Pass	Pass	Pass	Pass
CRHEA-DPT0020-010.0 MSD	06/23/09	73	99	98	101	Pass	Pass	Pass	Pass
BLANK	06/23/09	62	106	95	96	Pass	Pass	Pass	Pass
CRHEA-DPT0021-010.0	06/23/09	63	102	90	101	Pass	Pass	Pass	Pass
CRHEA-DPT0020-018.0	06/23/09	62	96	94	99	Pass	Pass	Pass	Pass
CRHEA-DPT0021-028.0	06/23/09	64	88	93	94	Pass	Pass	Pass	Pass
CRHEA-DPT0021-038.0	06/23/09	66	78	95	94	Pass	Pass	Pass	Pass
CRHEA-DPT0021-043.0	06/23/09	64	88	95	95	Pass	Pass	Pass	Pass
CRHEA-DPT0021-048.0	06/23/09	62	83	100	100	Pass	Pass	Pass	Pass
CRHEA-DPT0021-063.0	06/23/09	63	92	90	107	Pass	Pass	Pass	Pass
CRHEA-DPT0022-010.0	06/23/09	62	77	93	94	Pass	Pass	Pass	Pass
CRHEA-DPT0022-018.0	06/23/09	65	105	93	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-028.0	06/23/09	64	88	95	97	Pass	Pass	Pass	Pass
CRHEA-DPT0020-043.0 1:10	06/23/09	65	98	96	101	Pass	Pass	Pass	Pass
CRHEA-DPT0020-063.0 1:2	06/23/09	65	107	90	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-038.0	06/23/09	60	104	97	98	< LCL	Pass	Pass	Pass
CCS 20	06/23/09	71	94	100	96	Pass	Pass	Pass	Pass
CCS 20	06/24/09	84	91	108	100	Pass	Pass	Pass	Pass
LCS 20	06/24/09	88	95	96	100	Pass	Pass	Pass	Pass
BLANK	06/24/09	95	89	97	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-043.0 1:5	06/24/09	97	93	93	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-048.0	06/24/09	101	93	86	98	Pass	Pass	Pass	Pass
CRHEA-DPT0022-063.0	06/24/09	96	92	94	94	Pass	Pass	Pass	Pass
CRHEA-DPT0023-010.0	06/24/09	72	96	96	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-018.0	06/24/09	74	94	89	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-028.0	06/24/09	73	97	88	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-038.0 1:5	06/24/09	0	66	0	82	< LCL	Pass	< LCL	Pass
CRHEA-DPT0023-038.0 RPT	06/24/09	63	96	88	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-043.0	06/24/09	64	103	97	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-048.0	06/24/09	62	98	87	95	Pass	Pass	Pass	Pass
CRHEA-DPT0023-063.0	06/24/09	64	99	96	100	Pass	Pass	Pass	Pass
CRHEA-DPT0024-010.0	06/24/09	60	91	96	99	< LCL	Pass	Pass	Pass
CRHEA-DPT0024-018.0	06/24/09	63	101	97	95	Pass	Pass	Pass	Pass
CRHEA-DPT0024-028.0	06/24/09	66	101	93	99	Pass	Pass	Pass	Pass
CRHEA-DPT0024-038.0 1:10	06/24/09	64	101	92	100	Pass	Pass	Pass	Pass
CRHEA-DPT0022-038.0 1:5	06/24/09	67	110	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0024-043.0 1:5	06/24/09	65	80	99	103	Pass	Pass	Pass	Pass
CRHEA-DPT0024-048.0	06/24/09	66	87	96	95	Pass	Pass	Pass	Pass
CRHEA-DPT0024-063.0	06/24/09	63	97	91	100	Pass	Pass	Pass	Pass
CRHEA-DPT0020-073.0	06/24/09	58	89	98	104	< LCL	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHEA-DPT0022-073.0	06/24/09	61	70	98	99	Pass	Pass	Pass	Pass
CRHEA-DPT0023-010.0 MS	06/24/09	0	0	0	87	< LCL	< LCL	< LCL	Pass
CRHEA-DPT0023-010.0 MSD	06/24/09	71	102	100	99	Pass	Pass	Pass	Pass
CRHEA-DPT0023-010.0 MS	06/24/09	70	94	104	106	Pass	Pass	Pass	Pass
CCS 20	06/24/09	70	98	92	99	Pass	Pass	Pass	Pass
CCS 20	06/25/09	85	87	106	107	Pass	Pass	Pass	Pass
LCS 20	06/25/09	94	93	104	100	Pass	Pass	Pass	Pass
BLANK	06/25/09	96	88	92	94	Pass	Pass	Pass	Pass
CRHEA-DPT0025-010.0	06/25/09	98	90	91	100	Pass	Pass	Pass	Pass
CRHEA-DPT0025-018.0	06/25/09	94	90	91	102	Pass	Pass	Pass	Pass
CRHEA-DPT0025-028.0	06/25/09	94	93	102	97	Pass	Pass	Pass	Pass
CRHEA-DPT0025-038.0	06/25/09	97	93	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0025-043.0	06/25/09	95	92	94	105	Pass	Pass	Pass	Pass
CRHEA-DPT0025-048.0	06/25/09	102	97	90	96	Pass	Pass	Pass	Pass
CRHEA-DPT0025-063.0	06/25/09	99	97	102	95	Pass	Pass	Pass	Pass
CRHEA-DPT0026-010.0	06/25/09	80	98	99	10	Pass	Pass	Pass	< LCL
CRHEA-DPT0025-010.0 MS	06/25/09	83	99	92	103	Pass	Pass	Pass	Pass
CRHEA-DPT0025-010.0 MSD	06/25/09	78	104	97	100	Pass	Pass	Pass	Pass
BLANK	06/25/09	67	101	96	97	Pass	Pass	Pass	Pass
CRHEA-DPT0026-018.0	06/25/09	64	97	97	105	Pass	Pass	Pass	Pass
CRHEA-DPT0026-028.0	06/25/09	66	102	97	100	Pass	Pass	Pass	Pass
CRHEA-DPT0026-038.0	06/25/09	66	102	96	99	Pass	Pass	Pass	Pass
CRHEA-DPT0026-043.0	06/25/09	66	106	94	101	Pass	Pass	Pass	Pass
CRHEA-DPT0026-048.0	06/25/09	67	106	96	98	Pass	Pass	Pass	Pass
CRHEA-DPT0026-063.0	06/25/09	67	105	89	97	Pass	Pass	Pass	Pass
CRHEA-DPT0027-010.0	06/25/09	68	105	96	101	Pass	Pass	Pass	Pass
CRHEA-DPT0027-018.0	06/25/09	61	98	91	91	Pass	Pass	Pass	Pass
CRHEA-DPT0027-028.0	06/25/09	67	104	93	98	Pass	Pass	Pass	Pass
CRHEA-DPT0027-038.0 1:5	06/25/09	65	102	98	110	Pass	Pass	Pass	Pass
CRHEA-DPT0027-043.0	06/25/09	64	100	93	103	Pass	Pass	Pass	Pass
CRHEA-DPT0026-038.0 1:5	06/25/09	66	106	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0027-048.0	06/25/09	67	108	94	99	Pass	Pass	Pass	Pass
CRHEA-DPT0027-063.0	06/25/09	67	103	98	101	Pass	Pass	Pass	Pass
CRHEA-DPT0027-038.0 1:20	06/25/09	68	107	96	96	Pass	Pass	Pass	Pass
CRHEA-DPT0027-043.0 1:5	06/25/09	66	104	92	98	Pass	Pass	Pass	Pass
CRHEA-DPT0027-010.0 MS	06/25/09	72	94	104	100	Pass	Pass	Pass	Pass
CRHEA-DPT0027-010.0 MSD	06/25/09	82	100	98	98	Pass	Pass	Pass	Pass
CCS 20	06/25/09	75	94	95	96	Pass	Pass	Pass	Pass
CCS 20	06/26/09	79	77	98	95	Pass	Pass	Pass	Pass
LCS 20	06/26/09	88	88	104	105	Pass	Pass	Pass	Pass
BLANK	06/26/09	100	88	94	93	Pass	Pass	Pass	Pass
CRHEA-DPT0028-010.0	06/26/09	92	89	100	95	Pass	Pass	Pass	Pass
CRHEA-DPT0028-018.0	06/26/09	74	90	105	94	Pass	Pass	Pass	Pass
CRHEA-DPT0028-028.0 1:5	06/26/09	78	98	91	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
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S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHEA-DPT0028-038.0 1:20	06/26/09	75	97	97	98	Pass	Pass	Pass	Pass
CRHEA-DPT0028-043.0 1:5	06/26/09	79	103	92	95	Pass	Pass	Pass	Pass
CRHEA-DPT0028-048.0	06/26/09	76	99	92	98	Pass	Pass	Pass	Pass
CRHEA-DPT0028-063.0	06/26/09	83	90	89	101	Pass	Pass	Pass	Pass
CRHEA-DPT0029-010.0	06/26/09	74	101	100	99	Pass	Pass	Pass	Pass
CRHEA-DPT0029-018.0	06/26/09	68	101	94	100	Pass	Pass	Pass	Pass
CRHEA-DPT0029-028.0	06/26/09	65	97	91	93	Pass	Pass	Pass	Pass
CRHEA-DPT0029-038.0	06/26/09	63	98	97	99	Pass	Pass	Pass	Pass
CRHEA-DPT0029-043.0	06/26/09	63	97	91	100	Pass	Pass	Pass	Pass
CRHEA-DPT0029-048.0	06/26/09	67	101	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0029-063.0	06/26/09	63	97	94	94	Pass	Pass	Pass	Pass
CRHEA-DPT0029-010.0 MS	06/26/09	72	100	106	108	Pass	Pass	Pass	Pass
CRHEA-DPT0029-010.0 MSD	06/26/09	74	102	105	102	Pass	Pass	Pass	Pass
CRHEA-DPT0030-010.0	06/26/09	64	102	93	99	Pass	Pass	Pass	Pass
CRHEA-DPT0030-018.0	06/26/09	62	100	93	101	Pass	Pass	Pass	Pass
CRHEA-DPT0030-028.0	06/26/09	67	105	91	95	Pass	Pass	Pass	Pass
CRHEA-DPT0030-038.0	06/26/09	66	104	101	94	Pass	Pass	Pass	Pass
CRHEA-DPT0030-043.0	06/26/09	66	105	95	92	Pass	Pass	Pass	Pass
CRHEA-DPT0030-048.0	06/26/09	66	103	91	98	Pass	Pass	Pass	Pass
CRHEA-DPT0030-063.0	06/26/09	63	97	94	97	Pass	Pass	Pass	Pass
CCS 20	06/26/09	60	104	97	100	< LCL	Pass	Pass	Pass
BLANK/BFB	07/16/09	70	76	100	110	Pass	Pass	Pass	Pass
VSTD 20	07/16/09	75	86	99	100	Pass	Pass	Pass	Pass
RSTD 20	07/16/09	66	72	92	106	Pass	Pass	Pass	Pass
BLANK	07/16/09	69	84	96	107	Pass	Pass	Pass	Pass
CRHE-DPT0032-010.0 1:5	07/16/09	67	75	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0032-018.0	07/16/09	61	68	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0032-028.0	07/16/09	61	71	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0032-038.0	07/16/09	62	74	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0032-043.0	07/16/09	64	81	86	95	Pass	Pass	Pass	Pass
CRHE-DPT0032-010.0	07/16/09	56	72	95	94	< LCL	Pass	Pass	Pass
CRHE-DPT0032-048.0	07/16/09	57	64	91	92	< LCL	Pass	Pass	Pass
CRHE-DPT0032-063.0	07/16/09	62	102	92	97	Pass	Pass	Pass	Pass
CRHE-DPT0031-010.0	07/16/09	59	88	97	98	< LCL	Pass	Pass	Pass
CRHE-DPT0031-018.0	07/16/09	87	94	83	92	Pass	Pass	Pass	Pass
CRHE-DPT0031-028.0	07/16/09	100	97	89	92	Pass	Pass	Pass	Pass
CRHE-DPT0031-038.0	07/16/09	78	101	94	95	Pass	Pass	Pass	Pass
CRHE-DPT0031-043.0	07/16/09	76	94	88	95	Pass	Pass	Pass	Pass
CRHE-DPT0031-048.0	07/16/09	98	91	85	88	Pass	Pass	Pass	Pass
CRHE-DPT0031-063.0	07/16/09	97	95	88	86	Pass	Pass	Pass	Pass
CRHE-DPT0033-010.0	07/16/09	100	99	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0033-018.0 1:10	07/16/09	95	93	89	98	Pass	Pass	Pass	Pass
CRHE-DPT0033-028.0 1:10	07/16/09	97	92	96	95	Pass	Pass	Pass	Pass
CRHE-DPT033-038.0	07/16/09	97	93	100	97	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT033-043.0 1:5	07/16/09	102	97	89	97	Pass	Pass	Pass	Pass
CRHE-DPT033-048.0	07/16/09	98	91	89	102	Pass	Pass	Pass	Pass
CRHE-DPT033-063.0	07/16/09	98	93	92	101	Pass	Pass	Pass	Pass
CRHE-DPT0031-010.0 MS	07/17/09	80	82	92	104	Pass	Pass	Pass	Pass
CRHE-DPT0031-010.0 MSD	07/17/09	90	85	100	109	Pass	Pass	Pass	Pass
VSTD 20	07/17/09	93	83	89	104	Pass	Pass	Pass	Pass
RSTD 20	07/17/09	90	82	94	89	Pass	Pass	Pass	Pass
BLANK/BFB	07/17/09	68	79	86	104	Pass	Pass	Pass	Pass
VSTD 20	07/17/09	71	76	98	107	Pass	Pass	Pass	Pass
RSTD 20	07/17/09	88	80	96	101	Pass	Pass	Pass	Pass
BLANK	07/17/09	96	87	105	99	Pass	Pass	Pass	Pass
CRHE-DPT0031-038.0 1:2	07/17/09	88	79	94	100	Pass	Pass	Pass	Pass
CRHE-DPT0033-018.0	07/17/09	94	87	88	101	Pass	Pass	Pass	Pass
CRHE-DPT033-028.0	07/17/09	98	94	95	97	Pass	Pass	Pass	Pass
CRHE-DPT034-010.0	07/17/09	96	86	110	99	Pass	Pass	Pass	Pass
CRHE-DPT034-018.0	07/17/09	80	89	98	89	Pass	Pass	Pass	Pass
CRHE-DPT034-036.0	07/17/09	96	90	87	92	Pass	Pass	Pass	Pass
CRHE-DPT034-028.0	07/17/09	92	88	91	91	Pass	Pass	Pass	Pass
CRHE-DPT034-043.0	07/17/09	74	81	83	92	Pass	Pass	Pass	Pass
CRHE-DPT034-048.0	07/17/09	82	91	87	98	Pass	Pass	Pass	Pass
CRHE-DPT034-063.0	07/17/09	91	89	87	96	Pass	Pass	Pass	Pass
CRHE-DPT035-010.0	07/17/09	5	88	98	96	< LCL	Pass	Pass	Pass
CRHE-DPT035-018.0	07/17/09	96	103	86	101	Pass	Pass	Pass	Pass
CRHE-DPT035-028.0	07/17/09	69	95	97	97	Pass	Pass	Pass	Pass
CRHE-DPT035-010.0	07/17/09	0	92	88	94	< LCL	Pass	Pass	Pass
CRHE-DPT035-038.0	07/17/09	54	87	92	95	< LCL	Pass	Pass	Pass
CRHE-DPT035-043.0	07/17/09	61	96	84	96	Pass	Pass	Pass	Pass
CRHE-DPT035-048.0	07/17/09	62	97	84	98	Pass	Pass	Pass	Pass
CRHE-DPT035-063.0	07/17/09	56	96	92	95	< LCL	Pass	Pass	Pass
CRHE-DPT036-010.0	07/17/09	51	88	49	204	< LCL	Pass	< LCL	> UCL
CRHE-DPT036-018.0	07/17/09	57	94	90	93	< LCL	Pass	Pass	Pass
CRHE-DPT036-028.0	07/17/09	69	94	92	95	Pass	Pass	Pass	Pass
CRHE-DPT036-038.0 1:100	07/17/09	57	93	86	93	< LCL	Pass	Pass	Pass
CRHE-DPT036-043.0 1:2	07/17/09	95	95	100	99	Pass	Pass	Pass	Pass
CRHE-DPT036-048.0	07/17/09	82	96	86	92	Pass	Pass	Pass	Pass
CRHE-DPT036-063.0	07/17/09	101	98	86	94	Pass	Pass	Pass	Pass
CRHE-DPT036-028.0 1:2	07/17/09	91	87	87	85	Pass	Pass	Pass	Pass
CRHE-DPT036-048 MS	07/17/09	95	85	98	90	Pass	Pass	Pass	Pass
CRHE-DPT036-048 MSD	07/17/09	92	84	102	96	Pass	Pass	Pass	Pass
CRHE-DPT031-038 1:5	07/17/09	113	91	98	86	Pass	Pass	Pass	Pass
CRHE-DPT031-043 1:5	07/17/09	114	97	96	79	Pass	Pass	Pass	Pass
CRHE-DPT033-038 1:5	07/17/09	120	99	95	78	Pass	Pass	Pass	Pass
CRHE-DPT033-043 1:20	07/17/09	114	100	96	77	Pass	Pass	Pass	Pass
CRHE-DPT033-48 1:2	07/17/09	121	97	97	79	Pass	Pass	Pass	Pass

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On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK/BFB	08/04/09	113	98	81	104	Pass	Pass	Pass	Pass
VSTD 20	08/04/09	113	93	105	100	Pass	Pass	Pass	Pass
RSTD 20	08/04/09	102	88	91	89	Pass	Pass	Pass	Pass
VSTD 20	08/04/09	97	87	104	98	Pass	Pass	Pass	Pass
BLANK	08/04/09	93	87	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0037-010.0	08/04/09	99	97	91	97	Pass	Pass	Pass	Pass
CRHE-DPT0037-018.0	08/04/09	115	111	95	108	Pass	Pass	Pass	Pass
CRHE-DPT0037-026.0	08/04/09	102	99	89	91	Pass	Pass	Pass	Pass
CRHE-DPT0037-038.0	08/04/09	81	100	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0037-043.0	08/04/09	90	80	97	85	Pass	Pass	Pass	Pass
CRHE-DPT0037-048.0	08/04/09	92	85	87	98	Pass	Pass	Pass	Pass
CRHE-DPT0037-063.0	08/04/09	79	79	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0038-018.0	08/04/09	65	86	97	90	Pass	Pass	Pass	Pass
CRHE-DPT0038-028.0	08/04/09	77	96	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0038-010.0	08/04/09	62	94	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0038-038.0	08/04/09	71	98	82	110	Pass	Pass	Pass	Pass
CRHE-DPT0038-043.0	08/04/09	63	102	90	90	Pass	Pass	Pass	Pass
CRHE-DPT0038-048.0	08/04/09	62	102	89	96	Pass	Pass	Pass	Pass
CRHE-DPT0038-063.0	08/04/09	58	102	88	93	< LCL	Pass	Pass	Pass
CRHE-DPT0039-010.0	08/04/09	49	79	81	81	< LCL	Pass	Pass	Pass
CCS 20	08/05/09	79	108	106	98	Pass	Pass	Pass	Pass
LCS 20	08/05/09	79	98	93	96	Pass	Pass	Pass	Pass
BLANK	08/05/09	78	101	89	94	Pass	Pass	Pass	Pass
CRHE-DPT0039-018.0	08/05/09	77	93	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-028.0	08/05/09	79	80	88	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-038.0 1:5	08/05/09	72	95	93	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-043.0	08/05/09	76	96	89	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-048.0	08/05/09	76	90	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0039-063.0	08/05/09	74	85	87	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-038.0 1:20	08/05/09	73	83	88	89	Pass	Pass	Pass	Pass
CRHE-DPT0040-010.0 1:5	08/05/09	77	76	92	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-010.0	08/05/09	74	69	88	101	Pass	Pass	Pass	Pass
CRHE-DPT0040-018.0	08/05/09	82	82	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-028.0 1:2	08/05/09	84	79	93	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-038.0	08/05/09	79	78	112	91	Pass	Pass	Pass	Pass
CRHE-DPT0040-043.0	08/05/09	76	74	87	89	Pass	Pass	Pass	Pass
CRHE-DPT0040-048.0	08/05/09	73	71	91	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-063.0	08/05/09	81	80	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0041-010.0	08/05/09	80	83	91	97	Pass	Pass	Pass	Pass
CRHE-DPT0041-018.0	08/05/09	80	75	94	103	Pass	Pass	Pass	Pass
CRHE-DPT0041-028.0	08/05/09	78	89	91	102	Pass	Pass	Pass	Pass
CRHE-DPT0041-038.0	08/05/09	94	86	93	89	Pass	Pass	Pass	Pass
CRHE-DPT0039-063.0 MS	08/05/09	72	73	91	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-063.0 MSD	08/05/09	99	81	102	102	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

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S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0040-038.0 1:10	08/05/09	78	85	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0040-043.0 1:10	08/05/09	79	88	102	98	Pass	Pass	Pass	Pass
RSTD 20	08/06/09	79	96	100	102	Pass	Pass	Pass	Pass
VSTD 20	08/06/09	76	84	99	91	Pass	Pass	Pass	Pass
BLANK	08/06/09	84	93	93	96	Pass	Pass	Pass	Pass
CRHE-DPT0041-043.0	08/06/09	83	82	80	104	Pass	Pass	Pass	Pass
CRHE-DPT0041-048.0	08/06/09	68	73	88	89	Pass	Pass	Pass	Pass
CRHE-DPT0041-063.0	08/06/09	78	94	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0042-010.0	08/06/09	74	93	95	101	Pass	Pass	Pass	Pass
CRHE-DPT0042-018.0	08/06/09	72	88	78	93	Pass	Pass	< LCL	Pass
CRHE-DPT0042-028.0	08/06/09	70	91	87	96	Pass	Pass	Pass	Pass
CRHE-DPT0042-038.0 1:2	08/06/09	72	96	90	98	Pass	Pass	Pass	Pass
CRHE-DPT0042-048.0	08/06/09	86	98	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0042-063.0	08/06/09	78	98	87	89	Pass	Pass	Pass	Pass
CRHE-DPT0042-043.0	08/06/09	74	97	84	86	Pass	Pass	Pass	Pass
CRHE-DPT0042-038.0 1:10	08/06/09	66	89	88	94	Pass	Pass	Pass	Pass
CRHE-DPT0042-043.0 1:20	08/06/09	56	88	92	87	< LCL	Pass	Pass	Pass
CRHE-DPT0043-010.0	08/06/09	56	87	84	91	< LCL	Pass	Pass	Pass
CRHE-DPT0043-018.0	08/06/09	63	96	88	98	Pass	Pass	Pass	Pass
CRHE-DPT0043-028.0	08/06/09	63	98	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0043-043.0	08/06/09	67	95	88	100	Pass	Pass	Pass	Pass
CRHE-DPT0043-048.0 1:2	08/06/09	71	96	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0043-038.0 1:10	08/06/09	62	101	92	99	Pass	Pass	Pass	Pass
CRHE-DPT0043-063.0	08/06/09	52	80	101	84	< LCL	Pass	Pass	Pass
CRHE-DPT0043-028.0	08/06/09	63	98	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0042-010.0 MS	08/06/09	59	90	96	96	< LCL	Pass	Pass	Pass
CRHE-DPT0042-010.0 MSD	08/06/09	64	107	88	98	Pass	Pass	Pass	Pass
VSTD 20	08/06/09	61	107	92	94	Pass	Pass	Pass	Pass
RSTD 20	08/06/09	64	99	92	95	Pass	Pass	Pass	Pass
VSTD 20	08/06/09	61	82	105	97	Pass	Pass	Pass	Pass
BLANK	08/06/09	79	102	86	100	Pass	Pass	Pass	Pass
CRHE-DPT0044-033	08/06/09	68	95	92	94	Pass	Pass	Pass	Pass
CRHE-DPT044-038	08/06/09	98	97	88	94	Pass	Pass	Pass	Pass
CRHE-DPT044-043 1:5	08/06/09	112	103	95	94	Pass	Pass	Pass	Pass
CRHE-DPT044-048 1:2	08/06/09	108	98	87	96	Pass	Pass	Pass	Pass
CRHE-DPT0043-018.0 MS	08/06/09	96	83	92	93	Pass	Pass	Pass	Pass
CRHE-DPT0043-018.0 MSD	08/06/09	103	99	92	102	Pass	Pass	Pass	Pass
CCS 20	08/06/09	101	88	107	100	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHEA-DPT0019-010.0 **Date of Analysis:** 6/22/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	93	91	2	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	100	93	8	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	98	91	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	94	86	9	Pass	Pass	Pass
Trichloroethene	67	132	20	101	96	5	Pass	Pass	Pass
Tetrachloroethene	67	133	20	101	98	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0020-010.0 **Date of Analysis:** 6/23/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	88	100	13	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	95	110	14	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	95	109	13	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	94	104	10	Pass	Pass	Pass
Trichloroethene	67	132	20	97	111	14	Pass	Pass	Pass
Tetrachloroethene	67	133	20	96	111	15	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0023-010.0 **Date of Analysis:** 6/24/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	92	91	1	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	103	108	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	104	112	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	97	105	7	Pass	Pass	Pass
Trichloroethene	67	132	20	104	113	8	Pass	Pass	Pass
Tetrachloroethene	67	133	20	113	108	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0025-010.0 **Date of Analysis:** 6/25/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	92	87	6	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	105	99	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	102	98	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	99	97	2	Pass	Pass	Pass
Trichloroethene	67	132	20	108	101	7	Pass	Pass	Pass
Tetrachloroethene	67	133	20	106	101	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Samples: CRHEA-DPT0027-010.0 **Date of Analysis:** 6/25/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	86	92	7	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	101	107	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	101	109	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	99	106	7	Pass	Pass	Pass
Trichloroethene	67	132	20	108	113	4	Pass	Pass	Pass
Tetrachloroethene	67	133	20	109	106	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0029-010.0 **Date of Analysis:** 6/26/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	87	82	7	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	92	95	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	95	99	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	93	97	4	Pass	Pass	Pass
Trichloroethene	67	132	20	103	102	2	Pass	Pass	Pass
Tetrachloroethene	67	133	20	109	113	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0031-010.0 **Date of Analysis:** 7/16/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	90	90	1	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	97	98	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	92	95	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	91	92	2	Pass	Pass	Pass
Trichloroethene	67	132	20	88	91	2	Pass	Pass	Pass
Tetrachloroethene	67	133	20	90	89	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0036-048.9 **Date of Analysis:** 7/17/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	86	83	3	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	87	83	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	85	79	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	80	76	5	Pass	Pass	Pass
Trichloroethene	67	132	20	89	84	6	Pass	Pass	Pass
Tetrachloroethene	67	133	20	93	92	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Samples: CRHE-DPT0039-063.0 **Date of Analysis:** 8/6/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	83	65	24	Pass	Pass	> RPDL
1,1-Dichloroethene	61	137	20	75	81	7	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	72	82	13	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	76	87	13	Pass	Pass	Pass
Trichloroethene	67	132	20	83	90	9	Pass	Pass	Pass
Tetrachloroethene	67	133	20	82	101	21	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0042-010.0 **Date of Analysis:** 8/6/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	85	83	2	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	97	95	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	94	97	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	85	88	3	Pass	Pass	Pass
Trichloroethene	67	132	20	101	103	2	Pass	Pass	Pass
Tetrachloroethene	67	133	20	112	104	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 6/21/2009
LCS 2 — 6/22/2009
LCS 3 — 6/22/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	54	to	130	102	107	103	Pass	Pass	Pass
1,1-Dichloroethene	55	to	136	107	94	113	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	106	90	113	Pass	Pass	Pass
Cis-1,2-Dichloroethene	61	to	130	104	87	111	Pass	Pass	Pass
Trichloroethene	65	to	127	101	91	103	Pass	Pass	Pass
Tetrachloroethene	69	to	126	101	100	112	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 6/23/2009
LCS 5 — 6/24/2009
LCS 6 — 6/25/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	54	to	130	124	106	108	Pass	Pass	Pass
1,1-Dichloroethene	55	to	136	130	114	116	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	129	113	117	Pass	Pass	Pass
Cis-1,2-Dichloroethene	61	to	130	131	115	118	> UCL	Pass	Pass
Trichloroethene	65	to	127	116	106	106	Pass	Pass	Pass
Tetrachloroethene	69	to	126	115	105	117	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 6/26/2009
LCS 8 — 7/16/2009
LCS 9 — 7/17/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	54	to	130	101	114	102	Pass	Pass	Pass
1,1-Dichloroethene	55	to	136	110	95	89	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	110	87	86	Pass	Pass	Pass
Cis-1,2-Dichloroethene	61	to	130	115	82	83	Pass	Pass	Pass
Trichloroethene	65	to	127	103	94	88	Pass	Pass	Pass
Tetrachloroethene	69	to	126	115	85	84	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Samples: LCS 10, LCS 11, LCS 12 **Date of Analysis:** 7/17/2009, 8/4/2009, 8/5/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS#11	LCS#12	LCS#10	LCS#11	LCS#12
Vinyl Chloride	54	to	130	123	133	85	Pass	> UCL	Pass
1,1-Dichloroethene	55	to	136	105	131	83	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	101	138	83	Pass	> UCL	Pass
Cis-1,2-Dichloroethene	61	to	130	99	140	89	Pass	> UCL	Pass
Trichloroethene	65	to	127	90	118	91	Pass	Pass	Pass
Tetrachloroethene	69	to	126	93	109	97	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 13, LCS 14 **Date of Analysis:** 8/6/2009, 8/6/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#13	LCS#14		LCS#13	LCS#114	
Vinyl Chloride	54	to	130	92	74		Pass	Pass	
1,1-Dichloroethene	55	to	136	89	75		Pass	Pass	
Trans-1,2-Dichloroethene	61	to	133	90	76		Pass	Pass	
Cis-1,2-Dichloroethene	61	to	130	92	78		Pass	Pass	
Trichloroethene	65	to	127	88	88		Pass	Pass	
Tetrachloroethene	69	to	126	99	93		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0017-010.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-018.0-20090622	6/22/09	Water	1	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-028.0-20090622	6/22/09	Water	1	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-038.0-20090622	6/22/09	Water	1, 5	**210**	<1.0	**1.1**	**1.6**	<1.0	<1.0
CRHE-DPT0017-043.0-20090622	6/22/09	Water	5	**42**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0017-048.0-20090622	6/22/09	Water	1	**11.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-063.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-010.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-018.0-20090622	6/22/09	Water	1	**3.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-028.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-038.0-20090622	6/22/09	Water	5	**78**	< 5.0	< 5.0	**6.1**	< 5.0	< 5.0
CRHE-DPT0018-043.0-20090622	6/22/09	Water	5	**270**	< 5.0	**4.2 I**	**300**	< 5.0	< 5.0
CRHE-DPT0018-048.0-20090622	6/22/09	Water	1, 5	**270**	<1.0	**4.0**	**120**	<1.0	<1.0
CRHE-DPT0018-063.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0019-010.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0019-018.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0019-028.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0019-038.0-20090622	6/22/09	Water	1	**8.3**	<1.0	**2.0**	**16.1**	<1.0	<1.0
CRHE-DPT0019-043.0-20090622	6/22/09	Water	5	**7.6**	< 5.0	< 5.0	**22**	< 5.0	< 5.0
CRHE-DPT0019-048.0-20090622	6/22/09	Water	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0019-063.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0020-010.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0020-018.0-20090623	6/23/09	Water	10	**65**	<10	<10	<10	<10	<10
CRHE-DPT0020-028.0-20090623	6/23/09	Water	1	**57.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0020-038.0-20090623	6/23/09	Water	5, 10	**540**	< 5.0	**13**	**800**	< 5.0	< 5.0
CRHE-DPT0020-043.0-20090623	6/23/09	Water	5, 10	**470**	< 5.0	**21**	**380**	< 5.0	< 5.0
CRHE-DPT0020-048.0-20090623	6/23/09	Water	1	**3.3**	< 1.0	< 1.0	**3.6**	< 1.0	< 1.0
CRHE-DPT0020-063.0-20090623	6/23/09	Water	1, 2	**120**	< 1.0	**3.4**	**140**	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0021-010.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0021-018.0-20090623	6/23/09	Water	1	**1.2**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0021-028.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0021-038.0-20090623	6/23/09	Water	1	**11.7**	< 1.0	**2.9**	**33.5**	< 1.0	< 1.0
CRHE-DPT0021-043.0-20090623	6/23/09	Water	1	**11.8**	< 1.0	**3.6**	**47.9**	< 1.0	< 1.0
CRHE-DPT0021-048.0-20090623	6/23/09	Water	1	**3.2**	< 1.0	< 1.0	**1.6**	< 1.0	< 1.0
CRHE-DPT0021-063.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0022-010.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-018.0-20090623	6/23/09	Water	1	**5.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-028.0-20090623	6/23/09	Water	1	**7.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-038.0-20090623	6/23/09	Water	1, 5	**230**	< 1.0	**1.4**	**2.3**	< 1.0	< 1.0
CRHE-DPT0022-043.0-20090624	6/24/09	Water	5	**16**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0022-048.0-20090624	6/24/09	Water	1	**3.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-063.0-20090624	6/24/09	Water	1	**4.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-010.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-018.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-028.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0023-038.0-20090624	6/24/09	Water	1	**11.6**	<1.0	**8.0**	**94.2**	<1.0	<1.0
CRHE-DPT0023-043.0-20090624	6/24/09	Water	1	**15.6**	<1.0	**4.0**	**52.4**	<1.0	<1.0
CRHE-DPT0023-048.0-20090624	6/24/09	Water	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-063.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-010.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-018.0-20090624	6/24/09	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-028.0-20090624	6/24/09	Water	1	**65.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-038.0-20090624	6/24/09	Water	10	**570**	< 10	**10**	**590**	< 10	< 10
CRHE-DPT0024-043.0-20090624	6/24/09	Water	5	**390**	< 5.0	**17**	**210**	< 5.0	< 5.0
CRHE-DPT0024-048.0-20090624	6/24/09	Water	1	**1.9**	< 1.0	< 1.0	**2.3**	< 1.0	< 1.0
CRHE-DPT0024-063.0-20090624	6/24/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

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Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0020-073.0-20090624	6/24/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-073.0-20090624	6/24/09	Water	1	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-010.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-018.0-20090625	6/25/09	Water	1	**11.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-028.0-20090625	6/25/09	Water	1	**12.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-038.0-20090625	6/25/09	Water	1	**67.3**	< 1.0	**1.1**	**8.1**	< 1.0	< 1.0
CRHE-DPT0025-043.0-20090625	6/25/09	Water	1	**4.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0025-048.0-20090625	6/25/09	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0025-063.0-20090625	6/25/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-010.0-20090625	6/25/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-018.0-20090625	6/25/09	Water	1	**24**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-028.0-20090625	6/25/09	Water	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-038.0-20090625	6/25/09	Water	1,5	**390**	<1.0	**3.2**	**42.8**	<1.0	<1.0
CRHE-DPT0026-043.0-20090625	6/25/09	Water	1	**27.9**	<1.0	**1.1**	**4.2**	<1.0	<1.0
CRHE-DPT0026-048.0-20090625	6/25/09	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-063.0-20090625	6/25/09	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0027-010.0-20090625	6/25/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0027-018.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0027-028.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0027-038.0-20090625	6/25/09	Water	5,20	**770**	< 5.0	**38**	**270**	< 5.0	< 5.0
CRHE-DPT0027-043.0-20090625	6/25/09	Water	1,5	**310**	< 1.0	**20.5**	**1.4**	< 1.0	< 1.0
CRHE-DPT0027-048.0-20090625	6/25/09	Water	1	**3.7**	< 1.0	< 1.0	<1.0	< 1.0	< 1.0
CRHE-DPT0027-063.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0028-010.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0028-018.0-20090626	6/26/09	Water	1	**2.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0028-028.0-20090626	6/26/09	Water	5	**6.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0028-038.0-20090626	6/26/09	Water	20	**290**	< 20	< 20	**1000**	< 20	< 20
CRHE-DPT0028-043.0-20090626	6/26/09	Water	5	**430**	< 5.0	**14**	**440**	< 5.0	< 5.0

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Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0028-048.0-20090626	6/26/09	Water	1	**3.2**	< 1.0	< 1.0	<1.0	< 1.0	< 1.0
CRHE-DPT0028-063.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-010.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-018.0-20090626	6/26/09	Water	1	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-028.0-20090626	6/26/09	Water	1	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-038.0-20090626	6/26/09	Water	1	**96.6**	< 1.0	< 1.0	**8.5**	< 1.0	< 1.0
CRHE-DPT0029-043.0-20090626	6/26/09	Water	1	**58.2**	< 1.0	< 1.0	**6.3**	< 1.0	< 1.0
CRHE-DPT0029-048.0-20090626	6/26/09	Water	1	**2.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-063.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-010.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-018.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-028.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0030-038.0-20090626	6/26/09	Water	1	**4.2**	< 1.0	**2.1**	**12.6**	< 1.0	< 1.0
CRHE-DPT0030-043.0-20090626	6/26/09	Water	1	**5.3**	< 1.0	**3.5**	**26.0**	< 1.0	< 1.0
CRHE-DPT0030-048.0-20090626	6/26/09	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-063.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0032-010.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-018.0-20090716	7/16/09	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-028.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-038.0-20090716	7/16/09	Water	1	**38.3**	<1.0	<1.0	**5.9**	<1.0	<1.0
CRHE-DPT0032-043.0-20090716	7/16/09	Water	1	**23.1**	<1.0	**1.0**	**12.3**	<1.0	<1.0
CRHE-DPT0032-048.0-20090716	7/16/09	Water	1	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-063.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-010.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-018.0-20090716	7/16/09	Water	1	**32.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-028.0-20090716	7/16/09	Water	1	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-038.0-20090716	7/16/09	Water	1,2,5	**340**	<1.0	**2.9**	**67.9**	<1.0	<1.0
CRHE-DPT0031-043.0-20090716	7/16/09	Water	1,5	**200**	<1.0	**7.3**	**83.8**	<1.0	<1.0

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0031-048.0-20090716	7/16/09	Water	1	**9.3**	<1.0	<1.0	**1.5**	<1.0	<1.0
CRHE-DPT0031-063.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-010.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-018.0-20090716	7/17/09	Water	1	**2.1**	**2.4**	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-028.0-20090716	7/17/09	Water	1	<1.0	**1.9**	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-038.0-20090716	7/16/09	Water	1,5	**190**	<1.0	<1.0	**23.4**	<1.0	<1.0
CRHE-DPT0033-043.0-20090716	7/16/09	Water	5,20	**360**	**18**	**72**	**780**	<5.0	<5.0
CRHE-DPT0033-048.0-20090716	7/16/09	Water	1,2	**120**	<1.0	**2.3**	**13.7**	<1.0	<1.0
CRHE-DPT0033-063.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0034-010.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0034-018.0-20090717	7/17/09	Water	1	**4.8**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0034-036.0-20090717	7/17/09	Water	1	**22.8**	<1.0	**1.7**	**99.2**	<1.0	<1.0
CRHE-DPT0034-028.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0034-043.0-20090717	7/17/09	Water	2	**21**	<2.0	**2.8**	**140**	<2.0	<2.0
CRHE-DPT0034-048.0-20090717	7/17/09	Water	1	**15.6**	<1.0	<1.0	**18.5**	<1.0	<1.0
CRHE-DPT0034-063.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-010.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-018.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-028.0-20090717	7/17/09	Water	1	**6.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-038.0-20090717	7/17/09	Water	1	**69.8**	<1.0	<1.0	**9.6**	<1.0	<1.0
CRHE-DPT0035-043.0-20090717	7/17/09	Water	1	**13.8**	<1.0	<1.0	**5.2**	<1.0	<1.0
CRHE-DPT0035-048.0-20090717	7/17/09	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-063.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-010.0-20090717	7/17/09	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-018.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-028.0-20090717	7/17/09	Water	1, 2	**130**	<1.0	<1.0	**19.2**	<1.0	<1.0
CRHE-DPT0036-038.0-20090717	7/17/09	Water	100	**910**	<100	**280**	**2100**	<100	<100
CRHE-DPT0036-043.0-20090717	7/17/09	Water	2	**110**	<2.0	**19**	**130**	<2.0	<2.0

KB LABS, INC.

Final Data Report

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Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0036-048.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-063.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-010.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-018.0-20090804	8/4/09	Water	1	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-026.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-038.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-043.0-20090804	8/4/09	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-048.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-063.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-010.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-018.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-028.0-20090804	8/4/09	Water	1	**11.4**	<1.0	<1.0	**6.0**	<1.0	<1.0
CRHE-DPT0038-038.0-20090804	8/4/09	Water	1	**17.7**	<1.0	**3.7**	**19.3**	<1.0	<1.0
CRHE-DPT0038-043.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-048.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-063.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0039-010.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0039-018.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0039-028.0-20090805	8/5/09	Water	1	**88.5**	<1.0	**1.5**	**48.2**	<1.0	<1.0
CRHE-DPT0039-038.0-20090805	8/5/09	Water	5, 20	**1200**	**5.3**	**290**	**730**	<5.0	<5.0
CRHE-DPT0039-043.0-20090805	8/5/09	Water	1	**7.3**	<1.0	<1.0	**2.0**	<1.0	<1.0
CRHE-DPT0039-048.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0039-063.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-010.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-018.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-028.0-20090805	8/5/09	Water	2	**130**	<2.0	<2.0	<2.0	<2.0	<2.0
CRHE-DPT0040-038.0-20090805	8/5/09	Water	1,10	**290**	<1.0	**5.5**	**2.3**	<1.0	<1.0
CRHE-DPT0040-043.0-20090805	8/5/09	Water	1,10	**460**	<1.0	**8.2**	**2.1**	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0040-048.0-20090805	8/6/09	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-063.0-20090805	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-010.0-20090805	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-018.0-20090805	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-028.0-20090805	8/6/09	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-038.0-20090805	8/6/09	Water	1	**60.8**	<1.0	<1.0	**7.6**	<1.0	<1.0
CRHE-DPT0041-043.0-20090806	8/6/09	Water	1	**99.1**	<1.0	<1.0	**15.1**	<1.0	<1.0
CRHE-DPT0041-048.0-20090806	8/6/09	Water	1	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-063.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-010.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-018.0-20090806	8/6/09	Water	1	**18.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-028.0-20090806	8/6/09	Water	1	**45.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-038.0-20090806	8/6/09	Water	2, 10	**570**	<2.0	**2.7**	**120**	<2.0	<2.0
CRHE-DPT0042-043.0-20090806	8/6/09	Water	1, 20	**430**	**1.7**	**15.4**	**290**	<1.0	<1.0
CRHE-DPT0042-048.0-20090806	8/6/09	Water	1	**21.2**	<1.0	<1.0	**1.9**	<1.0	<1.0
CRHE-DPT0042-063.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0043-010.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0043-018.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0043-028.0-20090806	8/6/09	Water	1	**29.3**	<1.0	**3.7**	**2.0**	<1.0	<1.0
CRHE-DPT0043-038.0-20090806	8/6/09	Water	10	**600**	<10	**47**	**28**	<10	<10
CRHE-DPT0043-043.0-20090806	8/6/09	Water	1	**4.7**	<1.0	<1.0	**3.0**	<1.0	<1.0
CRHE-DPT0043-048.0-20090806	8/6/09	Water	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CRHE-DPT0043-063.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0044-033.0-20090806	8/6/09	Water	1	**2.3**	<1.0	<1.0	**9.6**	<1.0	<1.0
CRHE-DPT0044-038.0-20090806	8/6/09	Water	1	**3.9**	<1.0	<1.0	**20.8**	<1.0	<1.0
CRHE-DPT0044-043.0-20090806	8/6/09	Water	5	**17**	< 5.0	< 5.0	**79**	< 5.0	< 5.0
CRHE-DPT0044-048.0-20090806	8/6/09	Water	2	**34**	< 2.0	< 2.0	**13**	< 2.0	< 2.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☑ 6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Jan	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0017-010.0	6/22/09	0904		✓	6/22/09	0915		GW	2	✓	KB1-062209-1
-018.0		0916				0923					-2
-028.0		0929				0937					-3
-038.0		0944				0955					-4
-043.0		1050				1100					-5
-048.0		1110				1118					-6
-063.0		1130				1138					-7
DPT0018-010.0		1250				1314					-8
-018.0		1304				1314					-9
-028.0		1318				1328					-10
-038.0		1334				1345					-11
-043.0		1404				1410					-12
-048.0		1420				1428					-13
-063.0		1442				1451					-14
DPT0019-010.0		1604				1611					-15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/22/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE KSC, FL	
SAMPLERS	CONTACT PERSON: Jan	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0019-010.0	6/22/09	1614		✓	6/22/09	1620		GW	2	✓	KB1-062209-16
-028.0		1624				1632					-17
-038.0		1638				1648					-18
-043.0		1704				1712					-19
-48.0		1720				1726					-20
-63.0		1740				1751					-21
CRHEA-DPT0020-~~010.0~~ 010.1	6/23/09	~~0920~~ 0920			6/23/09	0933		GW	2	1	KB1-062309-1
-018.0		0938				0949					-2
-028.0		0957				1007					-3
-038.0		1018				1034					-4
-043.0		1053				1109					-5
-048.0		1119				1137					-6
-063.0		1145				1200					-7
DPT0021-010.0		1340				1355					-8

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Jan

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0021 -018.0	6/23/09	1404		✓	6/23/09	1464		GW	2	✓	KB1 - 062309 - 9
-028.0		1421				1433					-10
-038.0		1453				1505					-11
-043.0		1517				1530					-12
-048.0		1545				1557					-13
-063.0		1614				1635					-14
DPT022 -010.0		1654				1709					-15
-018.0		1708				1720					-16
-028.0		1724				1737					-17
-038.0		1745				1755					-18

N/A TL 6/23/09

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE KSC, FL	
SAMPLERS	CONTACT PERSON: Alex	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0022-043.0	6/24/09	0754		✓	6/24/09	0810		GW	2	✓	KB1-062409-1
-048.0		0822				0830					-2
-063.0		0851				0905					-3
DPT0023-010.0		0958				1011					-4
-018.0		1011				1025					-5
-028.0		1026				1039					-6
-038.0		1045				1057					-7
-43.0		1156				1210					-8
-048.0		1221				1233					-9
-063.0		1249				1300					-10
DPT0024-010.0		1331				1345					-11
-018.0		1401				1414					-12
-028.0		1422				1434					-13
-038.0		1449				1502					-14
-043.0		1511				1522					-15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 6/24/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0024-048.0	6/24/09	1534		✓	6/24/09	1545		GW	2	✓	KB1-062409-16
CRHEA-DPT0024-063.0		1602				1615					-17
DPT0020-73		1653				1705					-18
DPT0022-73		1729				1742					-19
CRHEA-DPT0025-010.0	6/25/09	0817		✓	6/25/09	0830		GW	2	✓	KB1-062509-1
-018.0		0831				0845					-2
-028.0		0855				0910					-3
-038.0		0916				0935					-4
-043.0		0941				0952					-5
-048.0		1003				1014					-6
-063.0		1036				1050					-7
DPT0026-010.0		1110				1121					-8
-018.0		1210				1222					-9
-028.0		1229				1240					-10

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-BPT0026-038.0	6/25/09	1257		✓	6/25/09	1309		GW	2	✓	KB1-062509-11
-043.0		1321				1332					-12
-048.0		1343				1355					-13
-063.0		1409				1421					-14
BPT0027-010.0		1452				1504					-15
-018.0		1508				1521					-16
-028.0		1527				1541					-17
-038.0		1547				1600					-18
-043.0		1618				1630					-19
-048.0		1642				1654					-20
-063.0		1704				1716					-21

N/A TL 6/25/09

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time 6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRFE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRFEA-DPT0028-010.0	6/26/09	0724		✓	6/26/09	0805		GW	2	✓	KB1-062609-1
-018.0		0739									-2
-028.0		0757									-3
-038.0		0817				0830					-4
-043.0		0844				0856					-5
-048.0		0906				0915					-6
-063.0		934				945					-7
DPT0029-010.0		1009				1021					-8
-018.0		1023				1035					-9
-028.0		1041				1149					-10
-038.0		1101				1119					-11
-043.0		1214				1225					-12
-048.0		1239				1250					-13
-063.0		1305				1320					-14
DPT0030-010.0		1440				1452					-15

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-SPT0030-018.0	6/26/09	1457		✓	6/26/09	1510		GW	2	✓	KB1-062609-16
-028.0		1516				1527					-17
-038.0		1534				1546					-18
-043.0		1601				1614					-19
-048.0		1621				1632					-20
-063.0		1643				1655					-21

N/A TC 6/26/09

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Jon	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0017-010.0	6/22/09	0904		✓	6/22/09	0915		GW	2	✓	KB1-062209-1
-018.0		0916				0923					-2
-028.0		0929				0937					-3
-038.0		0944				0955					-4
-043.0		1050				1100					-5
-048.0		1110				1118					-6
-063.0		1130				1138					-7
DPT0018-010.0		1250				1314					-8
-018.0		1304				1314					-9
-028.0		1318				1328					-10
-038.0		1334				1345					-11
-043.0		1404				1410					-12
-048.0		1420				1428					-13
-063.0		1442				1451					-14
DPT0019-010.0		1604				1611					-15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/22/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE KSC, FL	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Jan	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0019-018.0	6/22/09	1614		✓	6/22/09	1620		GW	2	✓	KB1-062209-16
-028.0		1624				1632					-17
-038.0		1638				1648					-18
-043.0		1704				1712					-19
-48.0		1720				1726					-20
-63.0		1740				1751					-21
CRHEA-DPT0020-~~010.0~~ 0120	6/23/09	~~0920~~ 0920			6/23/09	0933		GW	2	1	KB1-062309-1
-018.0		0938				0949					-2
-028.0		0957				1007					-3
-038.0		1018				1034					-4
-043.0		1053				1109					-5
-048.0		1119				1137					-6
-063.0		1145				1200					-7
DPT0021-010.0		1340				1355					-8

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON: Jan	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0021 -018.0	6/23/09	1404		✓	6/23/09	1414		GW	2	✓	KB1 - 062309 - 9
-028.0		1421				1433					-10
-038.0		1453				1505					-11
-043.0		1517				1530					-12
-048.0		1545				1557					-13
-063.0		1614				1635					-14
DPT022 -010.0		1654				1709					-15
-018.0		1708				1720					-16
-028.0		1724				1737					-17
-038.0		1745				1755					-18

N/A TL 6/23/09

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0022-043.0	6/24/09	0759		✓	6/24/09	0810		GW	2	✓	KB1-062409-1
-048.0		0822				0830					-2
-063.0		0851				0905					-3
DPT0023-010.0		0958				1011					-4
-018.0		1011				1025					-5
-028.0		1026				1039					-6
-038.0		1045				1057					-7
-43.0		1156				1210					-8
-048.0		1221				1233					-9
-063.0		1249				1300					-10
DPT0024-010.0		1331				1345					-11
-018.0		1401				1414					-12
-028.0		1422				1434					-13
-038.0		1449				1502					-14
-043.0		1511				1522					-15

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 6/24/09

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0024-048.0	6/24/09	1534		✓	6/24/09	1545		GW	2	✓	KB1-062409-16
CRHEA-DPT0024-63.0		1602				1615					-17
DPT0020-73		1653				1705					-18
DPT0022-73		1729				1742					-19
CRHEA-DPT0025-010.0	6/25/09	0817		✓	6/25/09	0830		GW	2	✓	KB1-062509-1
-018.0		0831				0845					-2
-028.0		0855				0910					-3
-038.0		0916				0935					-4
-043.0		0941				0952					-5
-048.0		1003				1014					-6
-063.0		1036				1050					-7
DPT0026-010.0		1110				1121					-8
-018.0		1210				1222					-9
-028.0		1229				1240					-10

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-BPT0026-038.0	6/25/09	1257		✓	6/25/09	1309		GW	2	✓	KB1-062509-11
-043.0		1321				1332					-12
-048.0		1343				1355					-13
-063.0		1409				1421					-14
BPT0027-010.0		1452				1504					-15
-018.0		1508				1521					-16
-028.0		1527				1541					-17
-038.0		1547				1600					-18
-043.0		1618				1630					-19
-048.0		1642				1654					-20
-063.0		1704				1716					-21

N/A TC 6/25/09

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0028-010.0	6/26/09	0724		✓	6/26/09	0805		GW	2	✓	KB1-062609-1
-018.0		0739				↓					-2
-028.0		0757									-3
-038.0		0817				0830					-4
-043.0		0844				0856					-5
-048.0		0906				0915					-6
-063.0		934				945					-7
DPT0029-010.0		1009				1021					-8
-018.0		1023				1035					-9
-028.0		1041				1149					-10
-038.0		1101				1119					-11
-043.0		1214				1225					-12
-048.0		1239				1250					-13
-063.0		1305				1320					-14
DPT0030-010.0		1440				1452					-15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON: Alex	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-SPT0030-018.0	6/26/09	1457		✓	6/26/09	1510		GW	2	✓	KB1-062609-16
-028.0		1516				1527					-17
-038.0		1534				1546					-18
-043.0		1601				1614					-19
-048.0		1621				1632					-20
-063.0		1643				1655					-21

N/A TL 6/26/09

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS	
GEOSYNTEC	NASA CRARE KSC, FL	7/16
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	IAN BARFUS	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE-DPT0032-010.0	7/16/09	1228		✓	7/16/09	1430		GW	2	✓	
-018.0		1246									
-028.0		1256									
-038.0		1312									
-043.0		1336									
-48.0		1356				1645					
-63.0		1416				↓					
CRHE-DPT0031-010.0		0850				1745					
-018.0		0900									
-028.0		0910									
-038.0		0926									
-043.0		0958									
-048.0		1018									
-063.0		1036									
CRHE-DPT0033-010.0	↓	1458		↓	↓	↓		↓	↓	↓	

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			7/16/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NAS CAHE KSC, FL

SAMPLERS:

CONTACT PERSON: JAN Barfus

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CAHE-DPT0033-018.0	7/16/09	1512		✓	7/16/09	1745		GW	2	✓	
-028.0		1618									
-038.0		1632									
-043.0		1700									
-048.0		1718									
-063.0		1734									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			7/16/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: JAY BARFUS

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHE-DPT0034-010.0	7/17/09	0759		✓	7/17/09	0810		GW	2	✓	
-018.0		0811				0820					
-028.0		0826				0835					
-036.0		0844				0854					
-043.0		0914				0924					
-048.0		0933				0942					
-063.0		0953				1004					
CRHE-DPT0035-010.0		1044				1057					
-018.0		1058				1106					
-028.0		1108				1117					
-038.0		1216				1226					
-043.0		1230				1241	(HK) 7/17				
-048.0		1246				1305	1305				
-063.0		1312				1323					
CRHE-DPT0036-010.0		1406				1430					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
		[signature]	7/17/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosystec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: JAN BARFUS

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHE-DPT0036-018.0	7/17/09	1416			7/17/09	1430		GW	2	✓	
-028.0		1432				1441					
-038.0		1446				1455					
-043.0		1512				1525					
-048.0		1528				1540					
-063.0		1546				1602					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			7/17/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KBI

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS:

CONTACT PERSON: Alex Rivera

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
CRHE-DPT0037-010.0-20090804	8/4/09	0900		✓	8/4/09	0900		W	2	✓				
-018.0		0915				0930								
-026.0		0932				0945								
-038.0		0952				1000								
-043.0		1036				1052								
-048.0		1058				1115								
-063.0		1123				1145								
DPT0038-010.0		1305				1350								
-019.0		1318				↓								
-028.0		1335												
-038.0		1354				1409								
-043.0		1434				1450								
-048.0		1456				1513								
-063.0		1525				1542								
DPT0039-010.0		1613				1628								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KBI

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CRHE KSGFL
SAMPLERS:
CONTACT PERSON: ALEX RIVERA
BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE-DPT0039-0180-20090805	8/5/09	0724		✓	8/5/09	1715		W	2	✓	
-028.0		0742									
-038.0		0807									
-043.0		0834									
-048.0		0855									
-063.0		0920									
DPT0040-010.0		0955									
-018.0		1008									
-028.0		1024									
-038.0		1044									
-043.0		1342									
-048.0		1404									
-063.0		1429									
DPT0041-010.0		1512									
-018.0		1525									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS:

CONTACT PERSON: JAN BARFUS

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHE DPT0041-043.0-20090806	8/6/09	0740	✓		8/6/09	0753		W	2	✓	
-048.0		0758				0816					
-063.0		0822				0830					
DPT0042-10@010.0		0853			(H)	0910					
-018.0		0904				0915					
-028.0		0918				0930					
-038.0		0932				0940					
-043.0		0958				0958					
-048.0		1014				1025					
-063.0		1034				1050					
DPT0043-010.0		1156				1225					
-018.0		1212				↓					
-028.0		1226				1256					
-038.0		1240				↓					
-043.0	↓	1310		↓	✓	1355		↓	↓	↓	

Page 46 of 48

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/6/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KBL

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CRHE KSC, FL
SAMPLERS
CONTACT PERSON
BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES					COMMENT / SAMPLE PRE FIX
CRHE-DPT0043-038.0-20090806	8/6/09	1324		✓	8/6/09	1355		W	2	✓					
-063.0		1512				1530									
DPT0044-033.0		1600				1615									
-038.0		1618				1629									
-043.0		1632				1646									
-048.0		1650				1705									

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* Hub Kelly	Date / Time 8/6/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KBI

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRITE KSC, FL

SAMPLERS:

CONTACT PERSON: ALEX RIVERA

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
CRITE-DPT0041-028.0-20090805	8/5/09	1542		✓	8/5/09	1715		W	2	✓				
-0380		1601												

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature) Neal Kelly	Date / Time 8/5/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

February 5, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 09-275

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from January 25 to February 2, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From January 25 to February 3, 2010, a total of 181 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Changes for sample ID CRHE-DPT0046-038.0-20100125 reported:
   vinyl chloride <1.0 changed to 10.0ug/L.
   t-1,2-dichlprothene <1.0 changed to 1.8 ug/L.
   c-1,2-dichloroethene <1.0 changed to 6.7 ug/L.

3. Changes for sample ID CRHE-DPT0053-028.0-20100127 reported:
   vinyl chloride <1.0 changed to 90.9ug/L.
   c-1,2-dichloroethene <1.0 changed to 2.3ug/L.

4. Changes for sample ID CRHE-DPT0073-038.0-20100203 reported:
   c-1,2-dichloroethene 1.6 changed to <1.0ug/L.
   trichloroethene <1.0 changed to 1.6ug/L.

5. Sample ID CRHE-DPT0050-038.0-20100126 has an "L" qualifier for vinyl chloride indicating the concentration exceeded Calibration range.

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6. Sample ID CRHE-DPT0052-028.0-20100127 has an “L” qualifier for vinyl chloride indicating the concentration exceeded Calibration range.

7. Sample ID CRHE-DPT0055-038.0-20100127 has an “L” qualifier for vinyl chloride indicating the concentration exceeded Calibration range.

8. Freon 113 was detected in a couple of samples as a TIC.

CRHE-DPT0069-010.0	1080 ug/L
CRHE-DPT0069-018.0	20 ug/

9. Compound 1,1-dichlorethane was also detected as a TIC during the project. As per client, values have been reported along with J estimation DQ.

10. During first week of project work, GCMS had some instrumental difficulties maintaining calibration tune. Client was notified. Samples possibly affected for vinyl chloride were reran on 1/28 after instrument tune was fixed.

11. All references to CHRE were changed to CRHE, the correct NASA KSC Site Location ID. Samples on COC are labeled CRHE.

12. Client had site ID’s DPT04XX changed to DPT00XX. Noted on the COCs.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	01/25/10	101	105	98	102	Pass	Pass	Pass	Pass
LCS 20	01/25/10	101	100	96	96	Pass	Pass	Pass	Pass
BLANK	01/25/10	105	94	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0045-018.0	01/25/10	104	100	96	101	Pass	Pass	Pass	Pass
CRHE-DPT0045-028.0	01/25/10	104	92	94	91	Pass	Pass	Pass	Pass
CRHE-DPT0045-038.0	01/25/10	103	104	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0045-044.0	01/25/10	102	93	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0045-018.0 MS	01/25/10	101	88	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0045-018.0 MSD	01/25/10	104	90	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0045-048.0	01/25/10	108	96	92	89	Pass	Pass	Pass	Pass
CRHE-DPT0045-058.0	01/25/10	106	97	95	90	Pass	Pass	Pass	Pass
CRHE-DPT0046-018.0	01/25/10	103	88	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0046-028.0	01/25/10	105	93	96	89	Pass	Pass	Pass	Pass
CRHE-DPT0046-038.0	01/25/10	106	93	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0046-043.0	01/25/10	103	90	96	90	Pass	Pass	Pass	Pass
CRHE-DPT0046-048.0	01/25/10	99	98	109	92	Pass	Pass	Pass	Pass
CRHE-DPT0046-058.0	01/25/10	108	99	94	89	Pass	Pass	Pass	Pass
CRHE-DPT0046-010.0	01/25/10	106	92	92	91	Pass	Pass	Pass	Pass
CRHE-DPT0045-010.0	01/25/10	148	128	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0047-010.0	01/25/10	108	97	95	87	Pass	Pass	Pass	Pass
CRHE-DPT0047-018.0	01/25/10	135	107	93	83	Pass	Pass	Pass	Pass
CRHE-DPT0047-028.0	01/25/10	184	107	94	85	> UCL	Pass	Pass	Pass
CRHE-DPT0047-038.0	01/25/10	116	109	94	85	Pass	Pass	Pass	Pass
CRHE-DPT0047-043.0	01/25/10	99	105	174	83	Pass	Pass	> UCL	Pass
CRHE-DPT0047-048.0	01/25/10	98	109	173	83	Pass	Pass	> UCL	Pass
CRHE-DPT0047-058.0	01/25/10	199	173	94	85	> UCL	> UCL	Pass	Pass
CRHE-DPT0046-058.0 MS	01/25/10	96	110	93	89	Pass	Pass	Pass	Pass
CRHE-DPT0046-058.0 MSD	01/25/10	114	124	93	88	Pass	Pass	Pass	Pass
CCS 20	01/25/10	101	108	96	88	Pass	Pass	Pass	Pass
CCS 20	01/26/10	81	80	108	101	Pass	Pass	Pass	Pass
CCS 20	01/26/10	99	85	93	99	Pass	Pass	Pass	Pass
LCS 20	01/26/10	104	104	76	90	Pass	Pass	Pass	Pass
BLANK	01/26/10	102	103	92	86	Pass	Pass	Pass	Pass
CRHE-DPT0048-010.0	01/26/10	73	106	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0048-018.0	01/26/10	102	104	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0048-028.0	01/26/10	114	112	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0048-038.0 1:10	01/26/10	106	104	91	85	Pass	Pass	Pass	Pass
CRHE-DPT0048-043.0	01/26/10	106	98	92	83	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0048-048.0	01/26/10	114	99	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0048-058.0	01/26/10	102	100	100	81	Pass	Pass	Pass	Pass
CRHE-DPT0049-028.0	01/26/10	108	96	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0049-038.0	01/26/10	106	95	93	83	Pass	Pass	Pass	Pass
CRHE-DPT0049-043.0	01/26/10	107	98	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0049-048.0	01/26/10	104	97	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0	01/26/10	183	116	92	83	> UCL	Pass	Pass	Pass
CRHE-DPT0050-010.0	01/26/10	103	101	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0050-018.0	01/26/10	213	123	91	81	> UCL	Pass	Pass	Pass
CRHE-DPT0050-028.0	01/26/10	111	95	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0050-038.0	01/26/10	200	121	93	83	> UCL	Pass	Pass	Pass
CRHE-DPT0050-043.0	01/26/10	103	98	98	170	Pass	Pass	Pass	> UCL
CRHE-DPT0050-048.0	01/26/10	106	99	92	83	Pass	Pass	Pass	Pass
CRHE-DPT0050-058.0	01/26/10	123	122	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0048-038.0	01/26/10	98	108	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0050-038.0 1:10	01/26/10	221	125	90	84	> UCL	Pass	Pass	Pass
CRHE-DPT0051-028.0	01/26/10	126	129	89	83	Pass	Pass	Pass	Pass
CRHE-DPT0051-038.0	01/26/10	124	120	89	83	Pass	Pass	Pass	Pass
CRHE-DPT0051-043.0	01/26/10	112	98	90	81	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0 MS	01/26/10	122	125	92	87	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0 MSD	01/26/10	109	114	165	85	Pass	Pass	> UCL	Pass
CRHE-DPT0049-058.0 MS	01/26/10	124	124	92	88	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0 MSD	01/26/10	101	108	103	86	Pass	Pass	Pass	Pass
RSTD	01/26/10	137	125	92	89	Pass	Pass	Pass	Pass
RSTD	01/26/10	102	92	100	99	Pass	Pass	Pass	Pass
CCS 20	01/26/10	115	117	90	88	Pass	Pass	Pass	Pass
CCS 20	01/27/10	103	99	94	81	Pass	Pass	Pass	Pass
LCS 20	01/27/10	106	100	95	89	Pass	Pass	Pass	Pass
BLANK	01/27/10	111	102	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0051-048.0	01/27/10	122	96	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0051-058.0	01/27/10	104	104	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0052-028.0	01/27/10	121	124	89	83	Pass	Pass	Pass	Pass
CRHE-DPT0052-038.0	01/27/10	106	94	208	84	Pass	Pass	> UCL	Pass
CRHE-DPT0052-043.0	01/27/10	103	96	199	85	Pass	Pass	> UCL	Pass
CRHE-DPT0052-048.0	01/27/10	102	104	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0052-058.0	01/27/10	124	133	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0052-063.0	01/27/10	102	99	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0053-028.0	01/27/10	124	124	91	83	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0053-038.0	01/27/10	216	124	90	81	> UCL	Pass	Pass	Pass
CRHE-DPT0053-043.0	01/27/10	105	93	182	84	Pass	Pass	> UCL	Pass
CRHE-DPT0053-048.0	01/27/10	237	146	91	82	> UCL	Pass	Pass	Pass
CRHE-DPT0053-058.0	01/27/10	101	100	100	172	Pass	Pass	Pass	> UCL
CRHE-DPT0051-048.0 MS	01/27/10	103	96	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0051-048.0 MSD	01/27/10	122	123	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0051-048.0 MSD	01/27/10	232	158	93	87	> UCL	> UCL	Pass	Pass
CRHE-DPT0054-028.0	01/27/10	121	119	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0054-038.0	01/27/10	126	123	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0054-043.0	01/27/10	108	93	98	167	Pass	Pass	Pass	> UCL
CRHE-DPT0054-048.0	01/27/10	124	122	91	81	Pass	Pass	Pass	Pass
CRHE-DPT0054-058.0	01/27/10	105	93	192	81	Pass	Pass	> UCL	Pass
CRHE-DPT0054-063.0	01/27/10	129	118	91	83	Pass	Pass	Pass	Pass
CRHE-DPT0055-028.0	01/27/10	163	125	91	82	> UCL	Pass	Pass	Pass
CRHE-DPT0055-038.0	01/27/10	124	124	92	80	Pass	Pass	Pass	Pass
CRHE-DPT0055-043.0	01/27/10	109	99	89	81	Pass	Pass	Pass	Pass
CRHE-DPT0055-048.0	01/27/10	124	134	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0055-058.0	01/27/10	107	98	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0055-063.0	01/27/10	124	138	88	81	Pass	Pass	Pass	Pass
CRHE-DPT0052-028.0 1:10	01/27/10	238	136	90	83	> UCL	Pass	Pass	Pass
CRHE-DPT0053-038.0	01/27/10	129	136	88	82	Pass	Pass	Pass	Pass
CRHE-DPT0054-058.0 MS	01/27/10	102	91	98	173	Pass	Pass	Pass	> UCL
CRHE-DPT0054-058.0 MSD	01/27/10	128	145	90	87	Pass	Pass	Pass	Pass
CRHE-DPT0054-058.0 MSD	01/27/10	106	105	97	107	Pass	Pass	Pass	Pass
VSTD 20	01/27/10	125	148	90	86	Pass	Pass	Pass	Pass
CCS 20	01/28/10	102	85	98	100	Pass	Pass	Pass	Pass
LCS 20	01/28/10	105	104	102	96	Pass	Pass	Pass	Pass
BLANK	01/28/10	128	147	88	80	Pass	Pass	Pass	Pass
CRHE-DPT0056-010.0	01/28/10	108	96	989	82	Pass	Pass	> UCL	Pass
CRHE-DPT0056-018.0	01/28/10	262	182	89	82	> UCL	> UCL	Pass	Pass
CRHE-DPT0056-028.0	01/28/10	104	94	98	116	Pass	Pass	Pass	Pass
CRHE-DPT0056-038.0	01/28/10	128	136	90	72	Pass	Pass	Pass	Pass
CRHE-DPT0056-043.0	01/28/10	109	95	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0056-048.0	01/28/10	108	96	192	82	Pass	Pass	> UCL	Pass
CRHE-DPT0056-058.0	01/28/10	237	196	91	82	> UCL	> UCL	Pass	Pass
CRHE-DPT0057-028.0	01/28/10	110	92	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0057-038.0	01/28/10	108	91	194	84	Pass	Pass	> UCL	Pass
CRHE-DPT0057-043.0	01/28/10	116	97	90	82	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
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Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0057-048.0	01/28/10	133	140	89	84	Pass	Pass	Pass	Pass
CRHE-DPT0057-058.0	01/28/10	123	134	89	85	Pass	Pass	Pass	Pass
CRHE-DPT0056-018.0	01/28/10	129	134	90	65	Pass	Pass	Pass	< LCL
CRHE-DPT0057-048.0	01/28/10	106	103	141	82	Pass	Pass	> UCL	Pass
CRHE-DPT0058-028.0	01/28/10	129	134	90	80	Pass	Pass	Pass	Pass
CRHE-DPT0058-038.0	01/28/10	127	135	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0056-018.0	01/28/10	129	134	90	65	Pass	Pass	Pass	< LCL
CRHE-DPT0058-043.0	01/28/10	131	136	90	73	Pass	Pass	Pass	Pass
CRHE-DPT0056-010.0 MS	01/28/10	95	36	109	173	Pass	< LCL	Pass	> UCL
CRHE-DPT0058-048.0	01/28/10	99	101	96	102	Pass	Pass	Pass	Pass
CRHE-DPT0058-058.0	01/28/10	99	99	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0058-063.0	01/28/10	104	104	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0059-028.0	01/28/10	102	108	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0057-058.0 MS	01/28/10	95	107	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0057-058.0 MSD	01/28/10	97	113	101	106	Pass	Pass	Pass	Pass
CRHE-DPT0059-038.0	01/28/10	96	113	98	104	Pass	Pass	Pass	Pass
CRHE-DPT0059-043.0	01/28/10	96	116	97	108	Pass	Pass	Pass	Pass
CRHE-DPT0059-048.0	01/28/10	94	114	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0059-058.0	01/28/10	95	113	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0060-028.0	01/28/10	95	114	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0060-038.0	01/28/10	95	119	100	107	Pass	Pass	Pass	Pass
VSTD 20	01/28/10	92	125	100	100	Pass	Pass	Pass	Pass
RSTD 20	01/28/10	94	114	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0055-028.0	01/28/10	95	111	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0055-038.0	01/28/10	92	116	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0055-043.0	01/28/10	94	113	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0055-048.0	01/28/10	95	119	100	106	Pass	Pass	Pass	Pass
BLANK	01/28/10	99	123	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0052-038.0	01/28/10	96	121	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0052-043.0	01/28/10	98	124	102	107	Pass	Pass	Pass	Pass
CRHE-DPT0058-058.0 MS	01/28/10	93	136	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0058-058.0 MSD	01/28/10	95	134	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0057-038.0	01/28/10	96	116	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0057-043.0	01/29/10	96	122	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0057-048.0	01/29/10	99	122	103	107	Pass	Pass	Pass	Pass
CRHE-DPT0056-038.0	01/29/10	98	126	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0060-038.0 1:10	01/29/10	99	128	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0056-043.0	01/29/10	98	121	103	112	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	01/29/10	92	126	101	100	Pass	Pass	Pass	Pass
CCS 20	01/29/10	92	127	100	101	Pass	Pass	Pass	Pass
LCS 20	01/29/10	89	126	101	99	Pass	Pass	Pass	Pass
BLANK	01/29/10	96	118	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0060-043.0 1:5	01/29/10	92	107	101	111	Pass	Pass	Pass	Pass
CRHE-DPT0057-038.0 1:10	01/29/10	97	120	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0061-028.0	01/29/10	95	114	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0061-038.0	01/29/10	98	122	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0061-028.0 MS	01/29/10	88	121	102	101	Pass	Pass	Pass	Pass
CRHE-DPT0061-028.0 MSD	01/29/10	90	117	102	102	Pass	Pass	Pass	Pass
CRHE-DPT0061-043.0	01/29/10	94	116	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0061-048.0	01/29/10	95	119	103	107	Pass	Pass	Pass	Pass
CRHE-DPT0061-058.0	01/29/10	96	120	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0061-063.0	01/29/10	96	120	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-010.0	01/29/10	95	122	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0062-018.0	01/29/10	96	123	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-028.0	01/29/10	94	118	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-038.0	01/29/10	97	121	104	110	Pass	Pass	Pass	Pass
CRHE-DPT0062-043.0	01/29/10	95	120	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0062-048.0	01/29/10	92	118	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-058.0	01/29/10	95	122	104	109	Pass	Pass	Pass	Pass
CRHE-DPT0063-028.0	01/29/10	94	119	102	111	Pass	Pass	Pass	Pass
CRHE-DPT0063-038.0	01/29/10	93	111	105	108	Pass	Pass	Pass	Pass
CRHE-DPT0063-043.0	01/29/10	92	112	104	112	Pass	Pass	Pass	Pass
CRHE-DPT0063-048.0	01/29/10	93	115	104	110	Pass	Pass	Pass	Pass
CRHE-DPT0063-058.0	01/29/10	97	117	104	107	Pass	Pass	Pass	Pass
VSTD 20	01/29/10	89	127	101	102	Pass	Pass	Pass	Pass
CCS 20	02/01/10	93	103	101	98	Pass	Pass	Pass	Pass
CCS 20	02/01/10	89	107	102	98	Pass	Pass	Pass	Pass
LCS 20	02/01/10	94	121	102	99	Pass	Pass	Pass	Pass
BLANK	02/01/10	95	115	104	106	Pass	Pass	Pass	Pass
CRHE-DPT0064-028.0	02/01/10	94	109	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0064-038.0	02/01/10	96	112	103	112	Pass	Pass	Pass	Pass
CRHE-DPT0064-043.0	02/01/10	97	113	104	109	Pass	Pass	Pass	Pass
CRHE-DPT0064-048.0	02/01/10	97	114	104	111	Pass	Pass	Pass	Pass
CRHE-DPT0064-058.0	02/01/10	93	109	106	111	Pass	Pass	Pass	Pass
CRHE-DPT0064-063.0	02/01/10	97	115	106	110	Pass	Pass	Pass	Pass
CRHE-DPT0065-028.0	02/01/10	97	115	104	113	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0065-038.0	02/01/10	94	113	105	110	Pass	Pass	Pass	Pass
CRHE-DPT0065-043.0	02/01/10	97	117	103	110	Pass	Pass	Pass	Pass
CRHE-DPT0065-048.0	02/01/10	94	117	104	111	Pass	Pass	Pass	Pass
CRHE-DPT0065-058.0	02/01/10	95	114	105	112	Pass	Pass	Pass	Pass
CRHE-DPT0065-063.0	02/01/10	95	118	105	110	Pass	Pass	Pass	Pass
CRHE-DPT0064-028.0 MS	02/01/10	87	119	104	100	Pass	Pass	Pass	Pass
CRHE-DPT0064-028.0 MSD	02/01/10	92	114	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0066-038.0	02/01/10	95	110	106	109	Pass	Pass	Pass	Pass
CRHE-DPT0066-028.0	02/01/10	96	112	105	109	Pass	Pass	Pass	Pass
CRHE-DPT0066-043.0	02/01/10	92	114	105	108	Pass	Pass	Pass	Pass
CRHE-DPT0066-048.0	02/01/10	94	119	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0066-058.0	02/01/10	94	115	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0067-010.0	02/01/10	96	119	105	108	Pass	Pass	Pass	Pass
CRHE-DPT0067-018.0	02/01/10	97	122	104	109	Pass	Pass	Pass	Pass
CRHE-DPT0067-028.0	02/01/10	98	119	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0067-038.0	02/01/10	97	121	102	110	Pass	Pass	Pass	Pass
CRHE-DPT0067-038.0 1:10	02/01/10	94	117	106	111	Pass	Pass	Pass	Pass
CRHE-DPT0067-043.0	02/01/10	98	126	101	111	Pass	Pass	Pass	Pass
CRHE-DPT0067-048.0	02/01/10	96	124	103	112	Pass	Pass	Pass	Pass
CRHE-DPT0067-058.0	02/01/10	98	126	103	110	Pass	Pass	Pass	Pass
CRHE-DPT0066-038.0 1:10	02/01/10	98	121	104	111	Pass	Pass	Pass	Pass
CRHE-DPT0066-028.0 1:5	02/01/10	97	125	103	111	Pass	Pass	Pass	Pass
CRHE-DPT0065-063.0 MS	02/01/10	96	133	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0065-063.0 MSD	02/01/10	96	126	103	101	Pass	Pass	Pass	Pass
VSTD 20	02/01/10	97	131	102	102	Pass	Pass	Pass	Pass
CCS 20	02/02/10	99	118	100	104	Pass	Pass	Pass	Pass
CCS 20	02/02/10	100	121	100	102	Pass	Pass	Pass	Pass
LCS 20	02/02/10	97	112	99	103	Pass	Pass	Pass	Pass
BLANK	02/02/10	100	117	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0067-043.0 1:5	02/02/10	100	118	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0068-028.0	02/02/10	100	118	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0068-038.0	02/02/10	99	116	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0068-043.0	02/02/10	100	117	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0068-048.0	02/02/10	100	117	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0068-058.0	02/02/10	102	119	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0069-010.0 1:20	02/02/10	100	122	101	109	Pass	Pass	Pass	Pass
CRHE-DPT0069-018.0	02/02/10	100	120	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0069-028.0	02/02/10	100	121	101	109	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0068-028.0 MS	02/02/10	95	121	103	103	Pass	Pass	Pass	Pass
CRHE-DPT0068-028.0 MSD	02/02/10	97	118	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0069-038.0	02/02/10	93	105	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0069-043.0	02/02/10	102	118	101	109	Pass	Pass	Pass	Pass
CRHE-DPT0069-048.0	02/02/10	100	118	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0069-058.0	02/02/10	93	109	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0070-028.0	02/02/10	99	118	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-038.0	02/02/10	100	116	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-043.0 1:10	02/02/10	101	121	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-048.0	02/02/10	98	114	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0	02/02/10	100	119	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-028.0	02/02/10	99	115	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0070-038.0	02/02/10	98	115	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-043.0	02/02/10	98	116	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-048.0	02/02/10	100	117	103	106	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0	02/02/10	98	114	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0069-010.0	02/02/10	98	119	101	106	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0 MS	02/02/10	98	127	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0 MSD	02/02/10	100	108	100	104	Pass	Pass	Pass	Pass
VSTD 20	02/02/10	100	118	101	102	Pass	Pass	Pass	Pass
CCS 20	02/03/10	102	111	98	103	Pass	Pass	Pass	Pass
LCS 20	02/03/10	100	105	98	104	Pass	Pass	Pass	Pass
BLANK	02/03/10	106	117	97	105	Pass	Pass	Pass	Pass
CRHE-DPT0072-028.0	02/03/10	98	104	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0072-038.0 1:1000	02/03/10	101	111	99	108	Pass	Pass	Pass	Pass
CRHE-DPT0072-043.0 1:20	02/03/10	100	112	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0072-048.0	02/03/10	101	113	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0072-058.0 1:5	02/03/10	99	110	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0072-063.0	02/03/10	102	112	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0073-028.0	02/03/10	102	114	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0073-038.0	02/03/10	101	113	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0073-043.0	02/03/10	102	113	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0073-048.0	02/03/10	101	112	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0073-058.0	02/03/10	102	113	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0072-038.0 1:5000	02/03/10	103	117	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0074-028.0	02/03/10	92	101	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0074-038.0 1:500	02/03/10	99	110	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0074-043.0 1:100	02/03/10	102	109	99	104	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0074-048.0	02/03/10	103	116	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0074-058.0	02/03/10	101	108	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0074-063.0	02/03/10	100	110	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0074-010.0	02/03/10	100	104	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0074-018.0	02/03/10	98	107	104	107	Pass	Pass	Pass	Pass
CRHE-DPT0073-010.0	02/03/10	101	108	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0073-018.0	02/03/10	102	111	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0072-010.0	02/03/10	100	114	102	102	Pass	Pass	Pass	Pass
CRHE-DPT0072-018.0	02/03/10	100	108	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0073-048.0 MS	02/03/10	100	112	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0073-048.0 MSD	02/03/10	100	109	98	99	Pass	Pass	Pass	Pass
VSTD 20	02/03/10	97	104	98	102	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0045-018.0 **Date of Analysis:** 1/25/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	114	102	12	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	85	100	16	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	80	118	39	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	59	156	20	97	100	3	Pass	Pass	Pass
Trichloroethene	70	136	20	108	108	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	117	119	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0046-058.0 **Date of Analysis:** 1/25/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	41	72	54	Pass	Pass	> RPDL
1,1-Dichloroethene	45	144	20	105	206	65	Pass	> UCL	> RPDL
Trans-1,2-Dichloroethene	68	130	20	111	212	63	Pass	> UCL	> RPDL
Cis-1,2-Dichloroethene	59	156	20	108	99	9	Pass	Pass	Pass
Trichloroethene	70	136	20	109	109	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	125	123	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0049-058.0 **Date of Analysis:** 1/26/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	25	26	5	< LCL	< LCL	Pass
1,1-Dichloroethene	45	144	20	99	105	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	105	113	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	111	117	6	Pass	Pass	Pass
Trichloroethene	70	136	20	111	113	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	116	125	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0051-048.0 **Date of Analysis:** 1/27/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	28	76	93	< LCL	Pass	> RPDL
1,1-Dichloroethene	45	144	20	115	217	61	Pass	> UCL	> RPDL
Trans-1,2-Dichloroethene	68	130	20	116	227	65	Pass	> UCL	> RPDL
Cis-1,2-Dichloroethene	59	156	20	114	129	13	Pass	Pass	Pass
Trichloroethene	70	136	20	106	114	7	Pass	Pass	Pass
Tetrachloroethene	57	152	20	129	125	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0054-058.0 **Date of Analysis:** 1/27/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	23	27	16	< LCL	< LCL	Pass
1,1-Dichloroethene	45	144	20	92	97	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	96	98	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	99	100	1	Pass	Pass	Pass
Trichloroethene	70	136	20	97	99	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	105	104	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0057-058.0 **Date of Analysis:** 1/28/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	99	105	6	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	95	105	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	103	110	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	103	108	4	Pass	Pass	Pass
Trichloroethene	70	136	20	102	106	4	Pass	Pass	Pass
Tetrachloroethene	57	152	20	99	100	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0058-058.0 **Date of Analysis:** 1/28/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	95	104	9	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	142	127	11	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	148	139	7	> UCL	> UCL	Pass
Cis-1,2-Dichloroethene	59	156	20	107	104	2	Pass	Pass	Pass
Trichloroethene	70	136	20	104	101	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	89	87	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0061-028.0 **Date of Analysis:** 1/29/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	80	101	23	Pass	Pass	> RPDL
1,1-Dichloroethene	45	144	20	114	115	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	118	120	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	88	97	10	Pass	Pass	Pass
Trichloroethene	70	136	20	85	95	11	Pass	Pass	Pass
Tetrachloroethene	57	152	20	78	85	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0064-028.0 **Date of Analysis:** 2/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	98	117	18	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	125	128	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	127	129	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	101	111	9	Pass	Pass	Pass
Trichloroethene	70	136	20	97	106	9	Pass	Pass	Pass
Tetrachloroethene	57	152	20	91	95	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0065-063.0 **Date of Analysis:** 2/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	84	97	14	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	115	117	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	122	121	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	103	104	1	Pass	Pass	Pass
Trichloroethene	70	136	20	101	104	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	88	95	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0068-028.0 **Date of Analysis:** 2/2/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	86	88	2	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	115	109	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	115	112	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	107	109	1	Pass	Pass	Pass
Trichloroethene	70	136	20	104	105	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	96	98	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0070-058.0 **Date of Analysis:** 2/2/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	85	91	7	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	109	106	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	115	111	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	109	109	0	Pass	Pass	Pass
Trichloroethene	70	136	20	107	105	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	97	97	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0073-048.0 **Date of Analysis:** 2/3/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	86	88	2	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	99	93	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	107	101	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	109	107	2	Pass	Pass	Pass
Trichloroethene	70	136	20	108	106	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	102	101	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 1/25/2010
LCS 2 — 1/26/2010
LCS 3 — 1/26/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	28	to	161	107	69	37	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	87	184	126	Pass	> UCL	Pass
Trans-1,2-Dichloroethene	61	to	133	80	177	130	Pass	> UCL	Pass
Cis-1,2-Dichloroethene	60	to	150	93	97	127	Pass	Pass	Pass
Trichloroethene	47	to	164	105	110	69	Pass	Pass	Pass
Tetrachloroethene	60	to	151	114	105	119	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 1/26/2010
LCS 5 — 1/27/2010
LCS 6 — 1/28/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	28	to	161	27	29	26	< LCL	Pass	< LCL
1,1-Dichloroethene	43	to	156	94	104	75	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	99	111	102	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	105	110	104	Pass	Pass	Pass
Trichloroethene	47	to	164	109	108	106	Pass	Pass	Pass
Tetrachloroethene	60	to	151	112	125	117	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 1/28/2010
LCS 8 — 1/29/2010
LCS 9 — 2/1/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	28	to	161	98	100	105	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	124	128	127	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	124	131	129	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	104	106	106	Pass	Pass	Pass
Trichloroethene	47	to	164	102	102	101	Pass	Pass	Pass
Tetrachloroethene	60	to	151	94	94	93	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples:	LCS 10 LCS 11			**Date of Analysis:**	2/2/2010 2/3/2010				
Spike Compounds	**Control Limits**			**Percent Recoveries**			**Control Limit Checks**		
	Lower		**Upper**	**LCS#10**	**LCS#11**		**LCS#10**	**LCS#11**	
Vinyl Chloride	28	to	161	92	90		Pass	Pass	
1,1-Dichloroethene	43	to	156	109	97		Pass	Pass	
Trans-1,2-Dichloroethene	61	to	133	113	100		Pass	Pass	
Cis-1,2-Dichloroethene	60	to	150	108	108		Pass	Pass	
Trichloroethene	47	to	164	105	105		Pass	Pass	
Tetrachloroethene	60	to	151	97	102		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0045-018.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0045-028.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	**2.0**	<1.0	<1.0	NA
CRHE-DPT0045-038.0-20100125	1/25/10	Water	1	**5.0**	<1.0	**1.6**	**13.6**	<1.0	<1.0	NA
CRHE-DPT0045-044.0-20100125	1/25/10	Water	1	**5.5**	<1.0	**1.6**	**19.0**	<1.0	**5.1**	NA
CRHE-DPT0045-048.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0045-058.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-018.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-028.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-038.0-20100125	1/25/10	Water	1	**10.0**	<1.0	**1.8**	**6.7**	<1.0	<1.0	NA
CRHE-DPT0046-043.0-20100125	1/25/10	Water	1	**4.4**	<1.0	**3.4**	**9.5**	<1.0	<1.0	NA
CRHE-DPT0046-048.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-058.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-010.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0045-010.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-010.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-018.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-028.0-20100125	1/25/10	Water	1	**12.2**	<1.0	<1.0	**4.0**	<1.0	<1.0	NA
CRHE-DPT0047-038.0-20100125	1/25/10	Water	1	**28.1**	<1.0	**5.1**	**21.2**	<1.0	<1.0	NA
CRHE-DPT0047-043.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	**1.8**	<1.0	<1.0	NA
CRHE-DPT0047-048.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-058.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-010.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-018.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-028.0-20100126	1/26/10	Water	1	<1.0	<1.0	**4.9**	**3.5**	<1.0	<1.0	NA
CRHE-DPT0048-038.0-20100126	1/26/10	Water	1	**2.4**	**14.4**	<1.0	**2.6**	<1.0	<1.0	**120 J**
CRHE-DPT0048-043.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

KB LABS, INC.

Final Data Report

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0048-048.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-058.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0049-028.0-20100126	1/26/10	Water	1	**3.8**	<1.0	**17.9**	**1.9**	<1.0	<1.0	NA
CRHE-DPT0049-038.0-20100126	1/26/10	Water	1	**3.4**	<1.0	<1.0	**3.1**	<1.0	<1.0	NA
CRHE-DPT0049-043.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	NA
CRHE-DPT0049-048.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0049-058.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-010.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-018.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-028.0-20100126	1/26/10	Water	1	**62.1**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-038.0-20100126	1/26/10	Water	1,10	**1100 L**	<1.0	**39.1**	**6.5**	<1.0	<1.0	NA
CRHE-DPT0050-043.0-20100126	1/26/10	Water	1	**3.3**	<1.0	<1.0	**1.2**	<1.0	<1.0	NA
CRHE-DPT0050-048.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0050-058.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-028.0-20100126	1/26/10	Water	1	**7.8**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-038.0-20100126	1/26/10	Water	1	**20.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-043.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-028.0-20100127	1/27/10	Water	1	**130 L**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-038.0-20100127	1/28/10	Water	1	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-043.0-20100127	1/28/10	Water	1	**40.5**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-063.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-028.0-20100127	1/27/10	Water	1	**90.9**	<1.0	<1.0	**2.3**	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0053-038.0-20100127	1/27/10	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-043.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-028.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-038.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-043.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-063.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-028.0-20100127	1/28/10	Water	1	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-038.0-20100127	1/28/10	Water	1	**150 L**	<1.0	<1.0	**1.0**	<1.0	<1.0	NA
CRHE-DPT0055-043.0-20100127	1/28/10	Water	1	**38.5**	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0055-048.0-20100127	1/28/10	Water	1	**12.7**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-063.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-010.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-018.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	NA
CRHE-DPT0056-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-038.0-20100128	1/29/10	Water	1	**7.3**	<1.0	<1.0	**7.6**	<1.0	<1.0	**22 J**
CRHE-DPT0056-043.0-20100128	1/29/10	Water	1	**25.1**	<1.0	**2.1**	**8.4**	<1.0	<1.0	**79 J**
CRHE-DPT0056-048.0-20100128	1/28/10	Water	1	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0057-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0057-038.0-20100128	1/28/10	Water	1, 10	**280**	<1.0	<1.0	**1.5**	<1.0	<1.0	NA
CRHE-DPT0057-043.0-20100128	1/29/10	Water	1	**71.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0057-048.0-20100128	1/29/10	Water	1	**15.7**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0057-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-038.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-043.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-048.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-063.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-038.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-043.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-048.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0060-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0060-038.0-20100128	1/28/10	Water	1, 10	**22.3**	<1.0	**3.8**	**140**	<1.0	<1.0	NA
CRHE-DPT0060-043.0-20100129	1/29/10	Water	5	**130**	<5.0	**12**	**120**	<5.0	<5.0	**72 J**
CRHE-DPT0061-028.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0061-038.0-20100129	1/29/10	Water	1	**7.9**	<1.0	<1.0	**57.3**	<1.0	<1.0	NA
CRHE-DPT0061-043.0-20100129	1/29/10	Water	1	**4.4**	<1.0	<1.0	**3.4**	<1.0	<1.0	NA
CRHE-DPT0061-048.0-20100129	1/29/10	Water	1	**7.3**	<1.0	<1.0	**1.3**	<1.0	<1.0	**18 J**
CRHE-DPT0061-058.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0061-063.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0062-010.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0062-018.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0062-028.0-20100129	1/29/10	Water	1	**7.6**	<1.0	<1.0	**2.8**	<1.0	<1.0	NA
CRHE-DPT0062-038.0-20100129	1/29/10	Water	1	**3.8**	<1.0	**4.8**	**45.1**	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0062-043.0-20100129	1/29/10	Water	1	**13.8**	<1.0	**4.9**	**50.5**	<1.0	<1.0	**27 J**
CRHE-DPT0062-048.0-20100129	1/29/10	Water	1	**3.3**	<1.0	<1.0	**3.7**	<1.0	<1.0	NA
CRHE-DPT0062-058.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-028.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-038.0-20100129	1/29/10	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-043.0-20100129	1/29/10	Water	1	**12.7**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-048.0-20100129	1/29/10	Water	1	**5.7**	<1.0	<1.0	**1.9**	<1.0	<1.0	NA
CRHE-DPT0063-058.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0064-028.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0064-038.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	NA
CRHE-DPT0064-043.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	**2.9**	<1.0	<1.0	NA
CRHE-DPT0064-048.0-20100201	2/1/10	Water	1	**1.4**	<1.0	<1.0	**4.6**	<1.0	<1.0	NA
CRHE-DPT0064-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0064-063.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0065-028.0-20100201	2/1/10	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0065-038.0-20100201	2/1/10	Water	1	**55.7**	<1.0	<1.0	**110**	<1.0	<1.0	NA
CRHE-DPT0065-043.0-20100201	2/1/10	Water	1	**36.9**	<1.0	<1.0	**86.6**	<1.0	<1.0	NA
CRHE-DPT0065-048.0-20100201	2/1/10	Water	1	**34.5**	<1.0	**1.2**	**32.1**	<1.0	<1.0	**27 J**
CRHE-DPT0065-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0065-063.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-028.0-20100201	2/1/10	Water	1, 5	**120**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-038.0-20100201	2/1/10	Water	1, 10	**220**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-043.0-20100201	2/1/10	Water	1	**110**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-048.0-20100201	2/1/10	Water	1	**10.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-010.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0067-018.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-028.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-038.0-20100201	2/1/10	Water	1, 10	**420**	<1.0	**9.3**	**3.3**	<1.0	<1.0	NA
CRHE-DPT0067-043.0-20100201	2/1/10	Water	1, 5	**200**	<1.0	**9.0**	**10.5**	<1.0	<1.0	NA
CRHE-DPT0067-048.0-20100201	2/1/10	Water	1	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0068-028.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	**2.6**	<1.0	<1.0	NA
CRHE-DPT0068-038.0-20100202	2/2/10	Water	1	**6.1**	<1.0	<1.0	**4.4**	<1.0	<1.0	NA
CRHE-DPT0068-043.0-20100202	2/2/10	Water	1	**13.3**	<1.0	<1.0	**2.3**	<1.0	<1.0	NA
CRHE-DPT0068-048.0-20100202	2/2/10	Water	1	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0068-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0069-010.0-20100202	2/2/10	Water	1	<1.0	**2.8**	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0069-018.0-20100202	2/2/10	Water	1	**3.8**	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0069-028.0-20100202	2/2/10	Water	1	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0069-038.0-20100202	2/2/10	Water	1	**82.2**	<1.0	<1.0	**7.5**	<1.0	<1.0	NA
CRHE-DPT0069-043.0-20100202	2/2/10	Water	1	**110 L**	<1.0	<1.0	**14.8**	<1.0	<1.0	NA
CRHE-DPT0069-048.0-20100202	2/2/10	Water	1	**31.6**	<1.0	<1.0	**3.8**	<1.0	<1.0	NA
CRHE-DPT0069-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0070-028.0-20100202	2/2/10	Water	1	<1.0	**2.9**	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0070-038.0-20100202	2/2/10	Water	1	**5.4**	**15.6**	<1.0	<1.0	<1.0	<1.0	**25 J**
CRHE-DPT0070-043.0-20100202	2/2/10	Water	10	**37**	**26**	<10	<10	<10	<10	**210 J**
CRHE-DPT0070-048.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0070-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0071-028.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0071-038.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	**3.1**	**1.4**	<1.0	NA
CRHE-DPT0071-043.0-20100202	2/2/10	Water	1	**14.6**	<1.0	<1.0	**2.7**	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Final Data Report

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0071-048.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0071-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-028.0-20100203	2/3/10	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-038.0-20100203	2/3/10	Water	1000, 5000	**4600**	<1000	<1000	**48000**	**160000**	<1000	NA
CRHE-DPT0072-043.0-20100203	2/3/10	Water	20	**54**	<20	<20	**570**	**1300**	<20	NA
CRHE-DPT0072-048.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**4.7**	**24.0**	<1.0	NA
CRHE-DPT0072-058.0-20100203	2/3/10	Water	5	**4 J**	<5.0	<5.0	**100**	**210**	<5.0	NA
CRHE-DPT0072-063.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**15.8**	**43.8**	<1.0	NA
CRHE-DPT0073-028.0-20100203	2/3/10	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-038.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	NA
CRHE-DPT0073-043.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-048.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-058.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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NASA CRHE

KSC, FL

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0074-028.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0074-038.0-20100203	2/3/10	Water	500	**7200**	<500	<500	**18000**	**8100**	<500	NA
CRHE-DPT0074-043.0-20100203	2/3/10	Water	100	**1300**	<100	<100	**4000**	**2900**	<100	NA
CRHE-DPT0074-048.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**3.6**	**4.2**	<1.0	NA
CRHE-DPT0074-058.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**2.9**	**2.5**	<1.0	NA
CRHE-DPT0074-063.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**2.0**	**1.7**	<1.0	NA
CRHE-DPT0074-010.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0074-018.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-010.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-018.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-010.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-018.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KS3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KS3+D/25/10	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0045-018.0	1/25/10	0900			1/25/10	0928		GW	2	✓	
028.0		0910				0928					
038.0		0921				0953					
048.0		0940				0953					
048.0		0957				1033					
058.0		1010				1030					
DPT0046-018.0		1150				1209					
028.0		1115				1200					
038.0		1120				1240					
048.0		1235				1240					
048.0		1250				1320					
058.0		1310				1320					
010.0		1340				1405					
DPT0045-010.0		1400				1405					
DPT0047-010.0		1415				1434					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
			1/25/10
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

Remarks and Observations
Client requested change of all sample IDs to 'D' in the second digit of DPT, ie DPT0445 instead of DPT0045 SH

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC FL

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

SAMPLE FIELD ID \ NUMBER KB3+012510	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT047-018.0	1/25/10	1425			1/25/10	1434		GW	2	✓	
028.0		1440				1455					
038.0		1450				1455					
043.0		1525				1536					
DPT0447-048.0		1540				1605					
" 058.0		1600				1605					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 1/25/10	**Remarks and Observations** all DPT047s should be changed to DPT0447 by client
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1CB3

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CAPE XNASA KSCFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 #012610										IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	PRESERVATION: C Chilled, H HCL, Ot Other (see Remarks)
DPT044B - 010.0	1/26/10	0800			1/26/10	0830		GW	2	✓	
018.0		0810				0830					
028.0		0825				0900					
038.0		0845				0900					
043.0		0900				0934					
048.0		0915				0934					
058.0		0940				1018					
DPT044B - 02F.0		1005				1018					
03F.0		1015				1040					
043.0		1045				1108					
048.0		1100				1108					
058.0		1115				1130					
DPT0452 - 010.0		1240				1240					
018.0		1225				1240					
028.0		1235				1305					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/26/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 + 01/26/10											
DPT0450 - 038.0	1/26/10	1300			1/26/10	1305		GW	2	✓	
043.0		1315				1355					
048.0		1330				↓					
058.0		1345									
DPT0451 - 025.0		1430				1500					
038.0		1445				1500					
043.0	↓	1455			↓	1515		↓	↓	↓	

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			1/26/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CTR2 NASA KSC, FL
SAMPLERS
CONTACT PERSON
BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3X012710											
DPT0451-048.0	1/21/10	0755			1/22/10	0830		GW	2	✓	
" -058.0		0815				0830					
DPT0452-028.0		0850				0910					
038.0		0900				0910					
043.0		0920				0940					
048.0		0935				0940					
058.0		0955				1020					
063.0		1010				1020					
DPT0453-028.0		1045				1108					
038.0		1100				1108					
048.0		1120				1140					
048.0		1135				1140					
058.0		1225				1235					
DPT0454-028.0		1305				1325					
" 038.0		1320				1325					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)			1/22/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3*012710	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0454-043.0	1/27/10	1335			1/27/10	1400		GW	2	✓	
046.0		1355				1400					
058.0		1410				1440					
063.0		1430				1440					
DPT0455-028.0	/	1525				1535					
038.0		1530				1535					
043.0		1545				1615					
048.0		1600				1615					
058.0		1620				1655					
063.0		1645				1655					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/27/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3*012810	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0457-010.0	1/28/10	0800			1/28/10	0815		GW	2	✓	
018.0		0810				0815					
028.0		0825				0840					
038.0		0835				0840					
043.0		0850				0915					
048.0		0910				0915					
058.0		0945				0953					
DPT0457-028.0		1010				1034					
038.0		1025				1034					
043.0		1045				1110					
048.0		1100				1110					
058.0		1120				1130					
DPT0458-028.0		1225				1245					
-038.0		1240				1245					
-043.0		1255				1320					

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

1/28/10

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1653

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E MASA ICSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KG3 * 01/28/10											
DPT 0458 – 048.0	1/28/10	1310			1/28/10	1320		GW	6	✓	
053.0		1330				1400					
063.0		1350				1400					
DPT 0459 – 028.0		1435				1455					
038.0		1450				1455					
043.0		1505				1550					
048.0		1520				↓					
058.0		1540				↓					
DPT 0460 028.0		1615				1650					
11 038.0	↓	1640			↓	1650		↓	↓	↓	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/28/10	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # K93

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
K93+0129 10											
DPT 04C0 - 043.0	4/29/10	0730			4/29/10	0745		GW	1	✓	
DPT 0461 - 028.0		0815				0830					
038.0		0825				0830					
043.0		0845				0915					
048.0		0900				0915					
058.0		0930				0940					
063.0		0950				1000					
DPT 046L - 010.0		1020				1035					
018.0		1030				1035					
028.0		1040				1055					
038.0		1050				1055					
043.0		1120				1130					
048.0		1145				1206					
058.0		1200				1206					
DPT 0463 - 028.0		1305				1330					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			4/29/10
Relinquished by: (Signature)		Received by: (Signature)	

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K83

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
K83* 012910											
DPT0463-038.0	1/29/10	1320			1/29/10	1330		GW	2	✓	
-043.0	↓	1340			↓	1343		↓	↓	↓	
-048.0		1358				1358					
058.0		1415				1416					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)			1/29/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec | PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS | CONTACT PERSON | BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3-020110										IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	
DPT0464-038.0	2/1/10	0810			2/1/10	0815		GW	2		
038.0		0826				0830					
043.0		0844				0849					
048.0		0902				0906					
058.0		0922				0945					
063.0		0938				0945					
DPT0065-028.0		1023				1043					
038.0		1038				1043					
043.0		1051				1112					
048.0		1109				1112					
058.0		1117				1154					
063.0		1143				1154					
DPT0066-028.0		1315				1325					switch sample ID # 38.0 / 28.0
038.0		1300				1325					
043.0		1332				1354					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/1/10	not DPT0464 changed to DPT0064 by client. RJF
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB-3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA ICSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3X020110											
DPT0066-048.0	2/1/10	1349			2/1/10	1354		GW	2	✓	
" 058.0		1407				1419					
DPT0067-018.0		1445				1450					
028.0		1513				1515					
038.0		1525				1527					
043.0		1537				1541					
048.0		1553				1555					
058.0	✓	1610			✓	1615		✓	✓	✓	
		1630				1635					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/1/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 * 020210											
DPT0068 - 028.0	2/2/10	0800			2/2/10	0805		GW	2	✓	
038.0		0812				0816					
043.0		0828				0830					
048.0		0845				0852					
058.0		0900				0910					
DPT0069 - 010.0		0927				0930					
018.0		0951				0953					
028.0		1003				1004					
038.0		1240				1245					
043.0		1257				1300					
048.0		1313				1315					
058.0		1330				1335					
DPT0070 - 028.0		1412				1420					
038.0		1423				1426					
043.0		1437				1440					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/2/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K53

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E NAS JAX FSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER K53+0202/0	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0070-048.0	2/2/10	1457			2/2/10	1455		GW	2		
" 058.0	↓	1507			↓	1514		↓	↓	↓	
DPT0071-028.0		1535				1537					
038.0		1557				1600					
043.0		1611				1615					
048.0		1624				1628					
058.0		1640				1647					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			2/2/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1483

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE MASA ISC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3*0203/0											
PT0072-028.0	2/3/10	0747			2/3/10	0800		GW	2	✓	
-038.0		0804				0810					
043.0		0819				0840					
048.0		0833				0840					
058.0		0850				0914					
063.0		0906				0914					
PT0073-028.0		0943				0944					
038.0		0959				1015					
043.0		1010				1015					
048.0		1025				1048					
058.0		1041				1045					
PT0074-028.0		1115				1225					
038.0		1125				1225					
043.0		1226				1247					
048.0		1242				1247					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)			2/3/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E NASA KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 7020310											
DATG074 – 058.0	2/3/10	1259			2/3/10	1305		GW	2	✓	
" 063.0	↓	1315			↓	1315		↓	↓	↓	
DPT074 – 010.0		1341				1347					
" 018.0		1350				1354					
DPT 073/100		1411				1420					
" 018.0		1417				1420					
DPT072 – 010.0		1433				1500					
" 018.0	↓	1445			↓	1509		↓	↓	↓	

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/3/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

March 3, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-37

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from February 22 to March 2, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
25132 SW 1st Ave
Newberry, FL 32669
Phone: 352-472-5830
Fax: 352-472-5832
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From February 22 to March 2, 2010, a total of 150 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHE-DPT0089-043.0 reported trichloroethene 5200 changed to 520ug/L.

3. As per client request, all diluted samples with values between the EL and MDL are reported and identified with FDEP Data Qualifier "I".

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	02/22/10	90	82	99	88	Pass	Pass	Pass	Pass
RSTD 20	02/22/10	84	89	94	89	Pass	Pass	Pass	Pass
BLANK	02/22/10	94	97	93	84	Pass	Pass	Pass	Pass
BLANK	02/22/10	95	94	95	91	Pass	Pass	Pass	Pass
RSTD 20	02/22/10	98	83	96	90	Pass	Pass	Pass	Pass
BLANK	02/22/10	90	92	100	87	Pass	Pass	Pass	Pass
CRHE-DPT0075-018.0	02/22/10	104	94	93	87	Pass	Pass	Pass	Pass
CRHE-DPT0075-028.0	02/22/10	95	91	96	90	Pass	Pass	Pass	Pass
CRHE-DPT0075-038.0	02/22/10	95	90	97	90	Pass	Pass	Pass	Pass
CRHE-DPT0075-043.0	02/22/10	94	90	95	88	Pass	Pass	Pass	Pass
CRHE-DPT0075-048.0	02/22/10	96	91	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0075-058.0	02/22/10	96	88	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0075-018.0 MS	02/22/10	94	81	97	90	Pass	Pass	Pass	Pass
CRHE-DPT0075-018.0 MSD	02/22/10	91	79	97	89	Pass	Pass	Pass	Pass
CRHE-DPT0076-018.0	02/22/10	98	88	95	84	Pass	Pass	Pass	Pass
CRHE-DPT0076-028.0	02/22/10	94	94	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0076-038.0	02/22/10	109	94	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0076-043.0	02/22/10	101	95	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0076-048.0	02/22/10	100	97	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0076-058.0	02/22/10	101	95	94	81	Pass	Pass	Pass	Pass
CRHE-DPT0077-018.0	02/22/10	96	93	93	86	Pass	Pass	Pass	Pass
CRHE-DPT0077-028.0	02/22/10	98	94	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0077-038.0	02/22/10	98	94	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0077-043.0	02/22/10	99	97	94	87	Pass	Pass	Pass	Pass
CRHE-DPT0077-048.0	02/22/10	103	95	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0077-058.0	02/22/10	101	96	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0078-018.0	02/22/10	100	92	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0078-028.0	02/22/10	101	91	98	87	Pass	Pass	Pass	Pass
VSTD 20	02/22/10	93	83	95	87	Pass	Pass	Pass	Pass
VSTD 20	02/23/10	92	79	95	85	Pass	Pass	Pass	Pass
RSTD 20	02/23/10	88	84	96	87	Pass	Pass	Pass	Pass
BLANK	02/23/10	106	97	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0077-058.0 MS	02/23/10	94	82	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0077-058.0 MSD	02/23/10	90	80	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0078-038.0	02/23/10	97	84	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0078-043.0	02/23/10	98	87	92	87	Pass	Pass	Pass	Pass
CRHE-DPT0078-048.0	02/23/10	98	87	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0078-058.0	02/23/10	96	79	95	83	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0079-018.0	02/23/10	99	83	93	81	Pass	Pass	Pass	Pass
CRHE-DPT0078-058.0 MS	02/23/10	89	79	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0078-058.0 MSD	02/23/10	92	78	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0079-028.0	02/23/10	110	98	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0079-038.0	02/23/10	96	93	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0079-038.0 1:5	02/23/10	93	90	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0079-048.0	02/23/10	101	94	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0079-043.0	02/23/10	105	96	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0079-058.0	02/23/10	97	94	92	86	Pass	Pass	Pass	Pass
CRHE-DPT0080-018.0	02/23/10	100	91	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0080-028.0	02/23/10	102	92	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-038.0	02/23/10	97	88	91	86	Pass	Pass	Pass	Pass
CRHE-DPT0080-038.0 1:100	02/23/10	101	91	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-043.0	02/23/10	84	89	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-043.0 1:100	02/23/10	103	92	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-048.0	02/23/10	101	90	91	86	Pass	Pass	Pass	Pass
CRHE-DPT0080-058.0	02/23/10	104	92	92	82	Pass	Pass	Pass	Pass
CRHE-DPT0081-028.0	02/23/10	101	89	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0081-038.0	02/23/10	98	86	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0081-043.0	02/23/10	99	83	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0081-048.0	02/23/10	104	90	92	81	Pass	Pass	Pass	Pass
CRHE-DPT0081-058.0	02/23/10	104	90	91	82	Pass	Pass	Pass	Pass
VSTD 20	02/23/10	93	78	92	85	Pass	Pass	Pass	Pass
VSTD 20	02/24/10	88	75	96	84	Pass	Pass	Pass	Pass
RSTD 20	02/24/10	93	79	96	83	Pass	Pass	Pass	Pass
BLANK	02/24/10	99	84	98	83	Pass	Pass	Pass	Pass
CRHE-DPT0082-010.0	02/24/10	98	86	92	83	Pass	Pass	Pass	Pass
CRHE-DPT0082-018.0	02/24/10	102	82	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0082-028.0	02/24/10	98	84	92	87	Pass	Pass	Pass	Pass
CRHE-DPT0082-033.0	02/24/10	103	85	92	81	Pass	Pass	Pass	Pass
CRHE-DPT0082-038.0	02/24/10	102	85	92	82	Pass	Pass	Pass	Pass
CRHE-DPT0082-043.0	02/24/10	102	85	93	78	Pass	Pass	Pass	Pass
CRHE-DPT0082-048.0	02/24/10	104	87	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0082-010.0 MS	02/24/10	94	75	94	85	Pass	Pass	Pass	Pass
CRHE-DPT0082-010.0 MSD	02/24/10	93	76	96	83	Pass	Pass	Pass	Pass
CRHE-DPT0083-010.0	02/24/10	100	86	94	80	Pass	Pass	Pass	Pass
CRHE-DPT0083-018.0	02/24/10	98	86	92	80	Pass	Pass	Pass	Pass
CRHE-DPT0083-028.0	02/24/10	103	88	90	79	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

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Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0083-033.0	02/24/10	101	87	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0083-038.0	02/24/10	98	88	94	81	Pass	Pass	Pass	Pass
CRHE-DPT0083-043.0	02/24/10	100	84	91	83	Pass	Pass	Pass	Pass
CRHE-DPT0083-048.0	02/24/10	100	86	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0084-010.0	02/24/10	101	88	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0084-018.0	02/24/10	98	84	87	76	Pass	Pass	Pass	Pass
CRHE-DPT0084-028.0	02/24/10	101	82	91	81	Pass	Pass	Pass	Pass
CRHE-DPT0084-033.0	02/24/10	98	83	89	79	Pass	Pass	Pass	Pass
CRHE-DPT0084-038.0	02/24/10	99	80	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0084-043.0	02/24/10	97	80	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0084-048.0	02/24/10	103	83	90	78	Pass	Pass	Pass	Pass
CRHE-DPT0084-018.0 MS	02/24/10	93	77	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0084-018.0 MSD	02/24/10	91	72	91	84	Pass	Pass	Pass	Pass
VSTD 20	02/24/10	95	79	93	90	Pass	Pass	Pass	Pass
VSTD 20	02/25/10	90	81	92	79	Pass	Pass	Pass	Pass
RSTD 20	02/25/10	93	80	91	83	Pass	Pass	Pass	Pass
BLANK	02/25/10	100	82	94	77	Pass	Pass	Pass	Pass
CRHE-DPT0085-018.0	02/25/10	93	78	88	77	Pass	Pass	Pass	Pass
CRHE-DPT0085-010.0	02/25/10	98	82	92	79	Pass	Pass	Pass	Pass
CRHE-DPT0085-028.0	02/25/10	107	88	92	75	Pass	Pass	Pass	Pass
CRHE-DPT0085-033.0	02/25/10	98	81	90	78	Pass	Pass	Pass	Pass
CRHE-DPT0085-038.0	02/25/10	100	81	91	77	Pass	Pass	Pass	Pass
CRHE-DPT0085-043.0	02/25/10	100	79	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0085-048.0	02/25/10	95	81	90	77	Pass	Pass	Pass	Pass
CRHE-DPT0086-010.0 1:100	02/25/10	103	84	89	80	Pass	Pass	Pass	Pass
CRHE-DPT0086-018.0 1:50	02/25/10	89	74	88	79	Pass	Pass	Pass	Pass
CRHE-DPT0085-010.0 MS	02/25/10	93	72	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0085-010.0 MSD	02/25/10	93	81	92	81	Pass	Pass	Pass	Pass
CRHE-DPT0086-028.0 1:5	02/25/10	98	82	94	78	Pass	Pass	Pass	Pass
CRHE-DPT0086-033.0 1:100	02/25/10	100	82	90	78	Pass	Pass	Pass	Pass
CRHE-DPT0086-038.0	02/25/10	104	88	88	76	Pass	Pass	Pass	Pass
CRHE-DPT0086-043.0	02/25/10	101	91	84	77	Pass	Pass	Pass	Pass
CRHE-DPT0086-048.0	02/25/10	108	92	55	75	Pass	Pass	< LCL	Pass
CRHE-DPT0086-033.0	02/25/10	101	90	87	77	Pass	Pass	Pass	Pass
CRHE-DPT0087-010.0	02/25/10	97	82	91	78	Pass	Pass	Pass	Pass
CRHE-DPT0087-018.0	02/25/10	98	83	89	76	Pass	Pass	Pass	Pass
CRHE-DPT0087-028.0	02/25/10	101	84	89	73	Pass	Pass	Pass	Pass
CRHE-DPT0087-033.0	02/25/10	102	83	87	79	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

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S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

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Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0087-038.0	02/25/10	98	78	91	80	Pass	Pass	Pass	Pass
CRHE-DPT0087-043.0	02/25/10	97	77	92	78	Pass	Pass	Pass	Pass
CRHE-DPT0087-048.0	02/25/10	101	80	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-010.0	02/25/10	100	79	88	77	Pass	Pass	Pass	Pass
VSTD 20	02/25/10	94	75	88	77	Pass	Pass	Pass	Pass
VSTD 20	02/26/10	94	82	90	77	Pass	Pass	Pass	Pass
RSTD 20	02/26/10	93	78	88	76	Pass	Pass	Pass	Pass
BLANK	02/26/10	101	84	90	77	Pass	Pass	Pass	Pass
CRHE-DPT0088-018.0	02/26/10	99	83	88	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-028.0	02/26/10	99	80	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-033.0	02/26/10	99	80	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0088-038.0 1:500	02/26/10	99	85	86	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-043.0 1:200	02/26/10	97	80	85	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-048.0	02/26/10	99	80	89	78	Pass	Pass	Pass	Pass
CRHE-DPT0089-010.0	02/26/10	101	80	90	79	Pass	Pass	Pass	Pass
CRHE-DPT0089-018.0	02/26/10	100	82	89	76	Pass	Pass	Pass	Pass
CRHE-DPT0089-028.0	02/26/10	101	80	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0089-033.0	02/26/10	104	82	88	77	Pass	Pass	Pass	Pass
CRHE-DPT0089-038.0	02/26/10	99	81	86	76	Pass	Pass	Pass	Pass
CRHE-DPT0089-043.0 1:200	02/26/10	95	79	87	75	Pass	Pass	Pass	Pass
CRHE-DPT0089-048.0	02/26/10	101	84	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0090-010.0	02/26/10	100	81	86	76	Pass	Pass	Pass	Pass
CRHE-DPT0090-018.0	02/26/10	101	84	85	76	Pass	Pass	Pass	Pass
CRHE-DPT0090-028.0	02/26/10	102	87	86	75	Pass	Pass	Pass	Pass
CRHE-DPT0090-033.0	02/26/10	97	86	89	77	Pass	Pass	Pass	Pass
CRHE-DPT0090-038.0	02/26/10	98	82	89	75	Pass	Pass	Pass	Pass
CRHE-DPT0090-043.0	02/26/10	102	81	89	76	Pass	Pass	Pass	Pass
CRHE-DPT0090-048.0	02/26/10	100	82	92	75	Pass	Pass	Pass	Pass
CRHE-DPT0089-038.0 1:5	02/26/10	103	84	87	72	Pass	Pass	Pass	Pass
CRHE-DPT0086-014.0 1:100	02/26/10	98	81	90	73	Pass	Pass	Pass	Pass
CRHE-DPT0086-023.0 1:20	02/26/10	97	84	88	71	Pass	Pass	Pass	< LCL
VSTD 20	02/26/10	94	75	88	76	Pass	Pass	Pass	Pass
VSTD 20	03/01/10	91	76	92	75	Pass	Pass	Pass	Pass
RSTD 20	03/01/10	89	77	92	74	Pass	Pass	Pass	Pass
BLANK	03/01/10	95	81	92	75	Pass	Pass	Pass	Pass
CRHE-DPT0091-010.0	03/01/10	92	79	91	72	Pass	Pass	Pass	Pass
CRHE-DPT0091-018.0	03/01/10	95	78	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0091-028.0	03/01/10	96	82	90	74	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0091-033.0	03/01/10	95	81	92	73	Pass	Pass	Pass	Pass
CRHE-DPT0091-018.0 MS	03/01/10	92	79	91	77	Pass	Pass	Pass	Pass
CRHE-DPT0091-018.0 MSD	03/01/10	88	76	93	78	Pass	Pass	Pass	Pass
CRHE-DPT0091-038.0	03/01/10	94	77	94	72	Pass	Pass	Pass	Pass
CRHE-DPT0091-043.0	03/01/10	96	80	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0091-048.0	03/01/10	93	83	86	71	Pass	Pass	Pass	< LCL
CRHE-DPT0092-010.0	03/01/10	104	87	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-014.0 1:50	03/01/10	100	92	86	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-018.0 1:1000	03/01/10	97	87	90	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-028.0 1:5	03/01/10	92	79	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-033.0 1:200	03/01/10	102	90	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0092-038.0 1:100	03/01/10	98	87	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-043.0	03/01/10	102	87	86	75	Pass	Pass	Pass	Pass
CRHE-DPT0092-048.0	03/01/10	97	86	88	71	Pass	Pass	Pass	< LCL
CRHE-DPT0093-010.0	03/01/10	100	88	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-014.0	03/01/10	98	84	88	73	Pass	Pass	Pass	Pass
CRHE-DPT0093-018.0	03/01/10	101	84	90	75	Pass	Pass	Pass	Pass
CRHE-DPT0093-028.0	03/01/10	101	88	85	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-033.0	03/01/10	102	83	89	77	Pass	Pass	Pass	Pass
CRHE-DPT0093-038.0	03/01/10	99	83	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0093-043.0	03/01/10	105	86	90	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-048.0	03/01/10	101	86	88	76	Pass	Pass	Pass	Pass
CRHE-DPT0094-010.0	03/01/10	103	89	87	73	Pass	Pass	Pass	Pass
CRHE-DPT0094-018.0	03/01/10	102	92	86	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-028.0	03/01/10	102	92	86	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-028.0 MS	03/01/10	99	85	85	73	Pass	Pass	Pass	Pass
CRHE-DPT0093-028.0 MSD	03/01/10	96	94	85	75	Pass	Pass	Pass	Pass
VSTD 20	03/01/10	96	97	80	69	Pass	Pass	Pass	< LCL
VSTD 20	03/02/10	95	86	82	76	Pass	Pass	Pass	Pass
RSTD 20	03/02/10	97	81	89	70	Pass	Pass	Pass	< LCL
BLANK	03/02/10	88	89	89	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-033.0	03/02/10	98	85	86	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-038.0	03/02/10	97	78	83	72	Pass	Pass	Pass	Pass
CRHE-DPT0094-043.0	03/02/10	99	83	87	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-048.0	03/02/10	99	79	86	69	Pass	Pass	Pass	< LCL
CRHE-DPT0095-010.0	03/02/10	98	78	87	72	Pass	Pass	Pass	Pass
CRHE-DPT0095-018.0	03/02/10	101	78	88	70	Pass	Pass	Pass	< LCL
CRHE-DPT0095-028.0	03/02/10	96	78	86	71	Pass	Pass	Pass	< LCL

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0095-033.0	03/02/10	102	86	87	71	Pass	Pass	Pass	< LCL
CRHE-DPT0095-038.0	03/02/10	102	85	85	71	Pass	Pass	Pass	< LCL
CRHE-DPT0095-043.0	03/02/10	95	84	87	70	Pass	Pass	Pass	< LCL
CRHE-DPT0095-048.0	03/02/10	100	84	86	70	Pass	Pass	Pass	< LCL
CRHE-DPT0096-010.0	03/02/10	100	84	88	70	Pass	Pass	Pass	< LCL
CRHE-DPT0096-018.0 1:5	03/02/10	99	84	85	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-028.0 1:2000	03/02/10	103	90	84	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-033.0 1:500	03/02/10	99	89	85	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-038.0	03/02/10	96	85	88	70	Pass	Pass	Pass	< LCL
CRHE-DPT0096-038.0 1:20	03/02/10	99	85	84	72	Pass	Pass	Pass	Pass
CRHE-DPT0096-043.0	03/02/10	101	86	86	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-048.0	03/02/10	103	84	86	70	Pass	Pass	Pass	< LCL
VSTD 20	03/02/10	93	74	86	75	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-37
Onsite Dates: 2/22/10-3/2/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0075-018.0 **Date of Analysis:** 2/22/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	105	100	4	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	81	79	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	83	83	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	80	3	Pass	Pass	Pass
Trichloroethene	70	136	20	85	89	4	Pass	Pass	Pass
Tetrachloroethene	57	152	20	94	95	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0077-058.0 **Date of Analysis:** 2/22/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	110	106	3	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	82	82	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	85	84	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	84	85	1	Pass	Pass	Pass
Trichloroethene	70	136	20	94	92	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	101	104	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0078-058.0 **Date of Analysis:** 2/23/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	104	104	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	78	78	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	79	82	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	77	78	2	Pass	Pass	Pass
Trichloroethene	70	136	20	86	89	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	93	97	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0082-010.0 **Date of Analysis:** 2/24/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	106	106	0	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	77	76	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	78	81	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	80	81	1	Pass	Pass	Pass
Trichloroethene	70	136	20	87	89	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	96	104	9	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-37
Onsite Dates: 2/22/10-3/2/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0084-018.0 **Date of Analysis:** 2/24/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	105	106	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	76	77	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	80	78	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	86	4	Pass	Pass	Pass
Trichloroethene	70	136	20	89	91	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	95	103	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0085-010.0 **Date of Analysis:** 2/25/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	106	107	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	78	79	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	80	81	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	80	3	Pass	Pass	Pass
Trichloroethene	70	136	20	91	95	5	Pass	Pass	Pass
Tetrachloroethene	57	152	20	94	104	10	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0091-018.0 **Date of Analysis:** 3/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	105	99	6	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	78	73	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	83	76	9	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	83	77	8	Pass	Pass	Pass
Trichloroethene	70	136	20	90	88	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	104	111	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0093-028.0 **Date of Analysis:** 3/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	99	93	6	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	70	69	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	72	70	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	77	73	6	Pass	Pass	Pass
Trichloroethene	70	136	20	86	82	5	Pass	Pass	Pass
Tetrachloroethene	57	152	20	101	96	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-37
Onsite Dates: 2/22/10-3/2/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1, LCS 2, LCS 3 **Date of Analysis:** 2/22/2010, 2/23/2010, 2/24/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	28	to	161	61	111	111	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	65	80	75	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	67	84	78	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	76	82	78	Pass	Pass	Pass
Trichloroethene	47	to	164	80	91	89	Pass	Pass	Pass
Tetrachloroethene	60	to	151	87	98	98	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4, LCS 5, LCS 6 **Date of Analysis:** 2/25/2010, 2/26/2010, 3/1/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	28	to	161	110	113	106	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	77	78	71	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	78	82	74	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	78	82	75	Pass	Pass	Pass
Trichloroethene	47	to	164	87	91	82	Pass	Pass	Pass
Tetrachloroethene	60	to	151	99	103	102	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 **Date of Analysis:** 3/2/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7			LCS#7		
Vinyl Chloride	28	to	161	99			Pass		
1,1-Dichloroethene	43	to	156	73			Pass		
Trans-1,2-Dichloroethene	61	to	133	76			Pass		
Cis-1,2-Dichloroethene	60	to	150	82			Pass		
Trichloroethene	47	to	164	89			Pass		
Tetrachloroethene	60	to	151	112			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0075-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-038.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-043.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-048.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-058.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-038.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-043.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-048.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-058.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0077-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-038.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-043.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-048.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-058.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-038.0-20100223	2/23/10	Water	1	**9.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-043.0-20100223	2/23/10	Water	1	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-048.0-20100223	2/23/10	Water	1	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-058.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-018.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-028.0-20100223	2/23/10	Water	1	**3.2**	<1.0	<1.0	**6.7**	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0079-038.0-20100223	2/23/10	Water	1, 5	**71.9**	<1.0	**1.2**	**140**	<1.0	<1.0
CRHE-DPT0079-043.0-20100223	2/23/10	Water	1	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-048.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-058.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-018.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-028.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-038.0-20100223	2/23/10	Water	1, 100	**1400**	<1.0	**5.4**	**9.0**	<1.0	<1.0
CRHE-DPT0080-043.0-20100223	2/23/10	Water	1,100	**2800**	<1.0	**15.2**	**21.6**	<1.0	<1.0
CRHE-DPT0080-048.0-20100223	2/23/10	Water	1	**75.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-058.0-20100223	2/23/10	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-028.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-038.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-043.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0081-048.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-058.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-010.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-018.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-028.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-033.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-038.0-20100224	2/24/10	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-043.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-048.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-010.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-018.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-028.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-033.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

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Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0083-038.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-043.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-048.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-010.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-018.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-028.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-033.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-038.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-043.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-048.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-010.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-018.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-028.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0085-033.0-20100225	2/25/10	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-038.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-043.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-048.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0086-010.0-20100225	2/25/10	Water	100	**560**	<100	<100	**1000**	<100	<100
CRHE-DPT0086-018.0-20100225	2/25/10	Water	50	**680**	<50	**56**	**5100**	<50	<50
CRHE-DPT0086-028.0-20100225	2/25/10	Water	5	**55**	<5	<5	**96**	<5	<5
CRHE-DPT0086-033.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0
CRHE-DPT0086-038.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0
CRHE-DPT0086-043.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0086-048.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-010.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-018.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0087-028.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-033.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-038.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-043.0-20100225	2/25/10	Water	1	**65.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-048.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-010.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-018.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-028.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-033.0-20100226	2/26/10	Water	1	**16.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-038.0-20100226	2/26/10	Water	500	**13000**	<500	<500	**14000**	**6000**	<500
CRHE-DPT0088-043.0-20100226	2/26/10	Water	200	**1500**	<200	<200	**4200**	**4800**	<200
CRHE-DPT0088-048.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	**1.3**	**1.3**	<1.0
CRHE-DPT0089-010.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0089-018.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0089-028.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0089-033.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0089-038.0-20100226	2/26/10	Water	1, 5	**180**	<1.0	<1.0	**7.8**	<1.0	<1.0
CRHE-DPT0089-043.0-20100226	2/26/10	Water	200	**4800**	<200	<200	**6200**	**520**	<200
CRHE-DPT0089-048.0-20100226	2/26/10	Water	1	**37.1**	<1.0	**1.2**	**15.7**	**1.1**	<1.0
CRHE-DPT0090-010.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-018.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-028.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-033.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-038.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-043.0-20100226	2/26/10	Water	1	**7.5**	<1.0	**2.2**	<1.0	<1.0	<1.0
CRHE-DPT0090-048.0-20100226	2/26/10	Water	1	**3.0**	<1.0	**1.4**	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0086-014.0-20100226	2/26/10	Water	100	**620**	<100	<100	**3300**	<100	<100
CRHE-DPT0086-023.0-20100226	2/26/10	Water	20	**480**	<20	<20	**770**	<20	<20
CRHE-DPT0091-010.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-018.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-028.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-033.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-038.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-043.0-20100301	3/1/10	Water	1	**100**	<1.0	**1.1**	<1.0	<1.0	<1.0
CRHE-DPT0091-048.0-20100301	3/1/10	Water	1	**11.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0092-010.0-20100301	3/1/10	Water	1	**4.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0092-014.0-20100301	3/1/10	Water	50	**1200**	<50	**74**	**2400**	<50	<50
CRHE-DPT0092-018.0-20100301	3/1/10	Water	1000	**2600**	<1000	**900 I**	**22000**	**3000**	<1000
CRHE-DPT0092-028.0-20100301	3/1/10	Water	5	**540**	<5	**18**	**130**	<5	<5

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0092-033.0-20100301	3/1/10	Water	200	**1000**	<200	<200	**5100**	**3800**	<200
CRHE-DPT0092-038.0-20100301	3/1/10	Water	100	**970**	<100	<100	**3600**	**4900**	<100
CRHE-DPT0092-043.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	**2.8**	**2.3**	<1.0
CRHE-DPT0092-048.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-010.0-20100301	3/1/10	Water	1	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-014.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-018.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-028.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-033.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-038.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-043.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-048.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-010.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0094-018.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-028.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-033.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-038.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-043.0-20100302	3/2/10	Water	1	**33.2**	<1.0	**2.0**	**22.8**	**4.7**	<1.0
CRHE-DPT0094-048.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-010.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-018.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-028.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-033.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-038.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-043.0-20100302	3/2/10	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-048.0-20100302	3/2/10	Water	1	**13.3**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

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KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0096-010.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0096-018.0-20100302	3/2/10	Water	5	**510**	<5	**5.0**	**93.0**	<5	<5
CRHE-DPT0096-028.0-20100302	3/2/10	Water	2000	**7700**	<2000	<2000	**34000**	<2000	<2000
CRHE-DPT0096-033.0-20100302	3/2/10	Water	500	**12000**	<500	<500	**14000**	<500	<500
CRHE-DPT0096-038.0-20100302	3/2/10	Water	1, 20	**490**	<1.0	<1.0	**12.1**	<1.0	<1.0
CRHE-DPT0096-043.0-20100302	3/2/10	Water	1	**1.5**	<1.0	<1.0	**3.8**	<1.0	<1.0
CRHE-DPT0096-048.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec | PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS | CONTACT PERSON | BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES
KB1-K022210										
DPT0075-018.0	2/22/10	0843			2/22/10	0855		GW	2	✓
028.0		0855				0900				
038.0		0913				0920				
043.0		0930				0942				
048.0		0950				0957				
058.0		1010				1015				
DPT0076-018.0		1103				1108				
028.0		1116				1120				
038.0		1207				1300				
043.0		1227				↓				
048.0		1242				↓				
058.0		1300				1310				
DPT0077-018.0		1341				1420				
028.0		1355				↓				
038.0		1410				↓				

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

COMMENT / SAMPLE PRE FIX

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			2/24/10
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KSL

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES					COMMENT / SAMPLE PRE FIX
KSL-022210															
DPT0027-043.0	2/22/10	1427			2/22/10	1455		GW	2	✓					
048.0	↓	1444			↓	1515		↓	↓	↓					
058.0	↓	1502			↓	1530		↓	↓	↓					
DPT0028-018.0	2/22/10	1638			2/22/10	1710		GW	2	✓					
020.0	↓	1640			↓	1710		↓	↓	↓					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/22/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # ICS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
ICS1*022310											
DPT0078 - 038.0	2/23/10	0828			2/23/10	0915		GW	2	✓	
043.0		0854				0915					
048.0		0917			1	1005					
058.0		0943				1005					
DPT0079 - 018.0		1040				1055					
028.0		1057				1235					
038.0		1121				↓					
048.0		1243									
043.0		1323				1340					
038.0		1301				1340					
DPT0080 - 018.0		1355				1430					
028.0		1416				1430					
038.0		1459				1540					
043.0		1523				1540					
DPT0081 - 028.0		1535				1545					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/23/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT / SAMPLE PRE FIX
KB1-102310														
DPT0081-038.0	4/23/10	1550			4/23/10	1600		GW	2	✓				
↓ 043.0		1605				1612								
DPT0080-048.0		1545				1630								
↓ -058.0		1609				1630								
DPT0081-048.0		1620				1635								
↓ 058.0		1640				1652								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 4/23/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec | PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS | CONTACT PERSON | BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB1K0224/0											
DPT082 - 010.0	7/24/10	0808			7/24/10	0815		GW	2	✓	
-018.0		0819				0840					
028.0		0831				0840					
033.0		0846				0915					
038.0		0908				0915					
043.0		0924				1005					
048.0		0953				1005					
DPT083 - 010.0		1151				1140					
018.0		1201				1240					
028.0		1213				1235					
033.0		1226				1235					
038.0		1242				1255					
043.0		1309				1350					
048.0		1326				1350					
DPT084 - 010.0		1416				1430					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	7/24/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1+022410											
DFT0084-018.0	2/24/10	1427			2/24/10	1550		GW	2	✓	
022.0	↓	1440			↓	1505		↓	↓	↓	
033.0		1454				1525					
038.0		1522				1550					
043.0		1538				1530					
048.0		1557				1615					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/24/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHCE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KS1 K022510	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0085-018.0	2/25/10	0832			2/25/10	0845		GW	2	✓	
010.0		0821				0845					
028.0		0845				0920					
033.0		0910				0920					
038.0		0926				0955					
043.0		0945				0955					
048.0		1004				1027					
DPT0086-010.0		1039				1105					
018.0		1057				1100					
028.0		1136				1222					
033.0		1211				1222					
038.0		1228				1255					
043.0		1245				1255					
048.0		1303				1315					
DPT0087-010.0		1406				1410					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/25/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KSJ

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CHRE KSC, FL
SAMPLERS
CONTACT PERSON
BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	
KSJ 402570											
DPT0087-018.0	2/25/10	1444			4/25/10	1508		GW	2	✓	
-028.0		1457				1528					
-033.0		1511				1535					
-038.0		1527				1535					
-043.0		1547				1620					
048.0		1606				1620					
DPT0088-010.0		1255				1705					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

COMMENT / SAMPLE PRE FIX

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/25/10	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K61

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER K61#022610	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
DPT008 - 018.0	2/26/10	0750			2/26/10	0900		GW	2	✓				
028.0		0806				0820								
033.0		0824				0830								
038.0		0841				0850								
043.0		0900				0910								
048.0		0935				0945								
DPT0089 - 010.0		1006				1015								
018.0		1018				1025								
028.0		1032				1045								
033.0		1048				1100								
038.0		1105				1115								
043.0		1212				1225								
048.0		1230				1240								
DPT0090 - 010.0		1302				1315								
018.0		1315				1325								

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/26/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KB1#02610	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT009 0-028.0	2/26/10	1334			2/26/10	1345		GW	2	✓	
-033.0	"	1352				1400					
038.0		1428				1440					
043.0		1446				1500					
048.0		1504				1524					
DPT 006 014.0		1536				1548					
023.0		1548				1600					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/26/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSG, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1*030110											
DPT0091-010.0	3/1/10	0806			3/1/10	0825		GW	2	✓	
018.0		0818				0825					
028.0		0828				0850					
033.0		0844				0850					
038.0		0942				1005					
043.0		0958				1005					
048.0		1025				1034					
DPT0092-010.0		1050				1110					
014.0		1100				1110					
018.0		1110				1130					
028.0		1124				1130					
033.0		1207				1240					
038.0		1233				1240					
043.0		1249				1315					
048.0		1306				1315					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 3/1/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS:

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1*030110											
DPT0093-010.0	3/1/10	1334			3/1/10	1350		GW	2	✓	
014.0		1344				1350					
018.0		1355				1405					
028.0		1419				1440					
033.0		1433				1440					
038.0		1449				1511					
043.0		1504				1511					
048.0		1521				1540					
DPT0094-010.0		1555				1607					
018.0		1614				1635					
028.0		1628				1635					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 3/1/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K81

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRL ICE, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0094-033.0	3/2/10	0745			3/2/10	0830		GW	2	✓	
038.0		0846				0930					
043.0		0903				0930					
048.0		0920				0940					
DPT0095-010.0		1017				1025					
018.0		1028				1050					
028.0		1041				1050					
033.0		1055				1120					
038.0		1110				1120					
043.0		1125				1135					
048.0		1217				1225					
DPT0096-010.0		1301				1310					
018.0		1313				1330					
028.0		1326				1350					
033.0		1341				1350					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/2/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # K31

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE 155, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT / SAMPLE PRE FIX
MTOO96-038.0	3/2/10	1401			3/2/10	1410		GW	2	✓				
043.0	↓	1418			↓	1425		↓	↓	↓				
048.0	↓	1435			↓	1446		↓	↓	↓				

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/2/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

June 28, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-137

Dear Ms.Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from June 14 to 124, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From June 14 to 24, 2010, a total of 152 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Changes for sample ID CRHE-DPT0097-010.0-20100614 reported:
   t-1,2-dichloroethene 28.8 changed to <1.0ug/L.
   c-1,2-dichloroethene <1.0 changed to 28.8ug/L.

3. Sample ID CRHE-DPT100-038.9-20100615 reported c-1, 2-dichloroethene 5900 changed to 59000 ug/L.

4. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier "I" some results were changed from the Field Report to the Final Report to reflect this requirement.

5. As per Geosyntec, the VC and TCE reporting limit on diluted samples with non-detects were lowered to KB Labs MDL and reported with FDEP Data Qualifier "I".

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BFB	06/14/10	108	110	97	94	Pass	Pass	Pass	Pass
VSTD 20	06/14/10	103	104	99	101	Pass	Pass	Pass	Pass
RSTD 20	06/14/10	85	102	98	97	Pass	Pass	Pass	Pass
BLANK	06/14/10	110	112	100	92	Pass	Pass	Pass	Pass
VSTD 20	06/14/10	105	114	94	95	Pass	Pass	Pass	Pass
METHOD BLANK	06/14/10	114	123	92	92	Pass	Pass	Pass	Pass
CRHE-DPT097-010.0-20100614	06/14/10	107	120	93	87	Pass	Pass	Pass	Pass
CRHE-DPT097-014.0-20100614	06/14/10	110	123	92	95	Pass	Pass	Pass	Pass
CRHE-DPT097-018.0-20100614	06/14/10	106	118	94	88	Pass	Pass	Pass	Pass
CRHE-DPT097-023.0-20100614	06/14/10	111	123	94	93	Pass	Pass	Pass	Pass
CRHE-DPT097-028.0-20100614	06/14/10	108	126	93	92	Pass	Pass	Pass	Pass
CRHE-DPT097-033.0-20100614	06/14/10	103	122	95	92	Pass	Pass	Pass	Pass
CRHE-DPT097-038.0-20100614	06/14/10	112	123	91	91	Pass	Pass	Pass	Pass
CRHE-DPT097-043.0-20100614	06/14/10	112	119	94	91	Pass	Pass	Pass	Pass
CRHE-DPT097-048.0-20100614	06/14/10	116	122	93	92	Pass	Pass	Pass	Pass
CRHE-DPT098-010.0-20100614	06/14/10	112	119	95	93	Pass	Pass	Pass	Pass
CRHE-DPT098-014.0-20100614	06/14/10	118	121	95	93	Pass	Pass	Pass	Pass
CRHE-DPT098-018.0-20100614	06/14/10	112	116	94	92	Pass	Pass	Pass	Pass
CRHE-DPT098-023.0-20100614	06/14/10	112	118	95	93	Pass	Pass	Pass	Pass
CRHE-DPT098-028.0-20100614	06/14/10	109	114	94	95	Pass	Pass	Pass	Pass
CRHE-DPT098-033.0-20100614	06/14/10	115	122	96	94	Pass	Pass	Pass	Pass
CRHE-DPT098-038.0-20100614	06/14/10	113	119	94	93	Pass	Pass	Pass	Pass
CRHE-DPT098-043.0-20100614	06/14/10	112	117	95	92	Pass	Pass	Pass	Pass
CRHE-DPT098-048.0-20100614	06/14/10	112	117	95	97	Pass	Pass	Pass	Pass
CRHE-DPT099-010.0-20100614	06/14/10	109	114	94	92	Pass	Pass	Pass	Pass
CRHE-DPT099-014.0-20100614	06/14/10	112	118	98	93	Pass	Pass	Pass	Pass
CRHE-DPT099-010.0-20100614MS	06/14/10	106	108	96	97	Pass	Pass	Pass	Pass
CRHE-DPT099-010.0-20100614MSD	06/14/10	102	105	97	96	Pass	Pass	Pass	Pass
VSTD 20	06/14/10	105	107	98	97	Pass	Pass	Pass	Pass
VSTD 20	06/15/10	104	102	96	95	Pass	Pass	Pass	Pass
RSTD 20	06/15/10	107	106	97	93	Pass	Pass	Pass	Pass
BLANK	06/15/10	112	115	96	90	Pass	Pass	Pass	Pass
METHOD BLANK	06/15/10	114	124	92	91	Pass	Pass	Pass	Pass
VSTD 20	06/15/10	110	117	92	93	Pass	Pass	Pass	Pass
CRHE-DPT097-010.0-20100615	06/15/10	114	120	92	93	Pass	Pass	Pass	Pass
CRHE-DPT097-014.0-20100615	06/15/10	113	125	91	92	Pass	Pass	Pass	Pass
CRHE-DPT099-018.0-20100615	06/15/10	117	121	94	90	Pass	Pass	Pass	Pass
CRHE-DPT099-023.0-20100615	06/15/10	118	123	92	90	Pass	Pass	Pass	Pass
CRHE-DPT099-028.0-20100615	06/15/10	194	209	93	91	> UCL	> UCL	Pass	Pass
CRHE-DPT099-033.0-20100615	06/15/10	116	120	92	91	Pass	Pass	Pass	Pass
CRHE-DPT099-038.0-20100616	06/16/10	117	122	94	91	Pass	Pass	Pass	Pass
CRHE-DPT099-043.0-20100616	06/16/10	116	117	91	93	Pass	Pass	Pass	Pass
CRHE-DPT099-048.0-20100616	06/16/10	118	120	91	91	Pass	Pass	Pass	Pass
CRHE-DPT100-010.0-20100616	06/16/10	116	120	93	91	Pass	Pass	Pass	Pass
CRHE-DPT100-014.0-20100616	06/16/10	117	120	94	90	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

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Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT100-018.0-20100616	06/16/10	117	117	93	93	Pass	Pass	Pass	Pass
CRHE-DPT100-023.0-20100616	06/16/10	118	120	95	92	Pass	Pass	Pass	Pass
CRHE-DPT100-028.0-20100616	06/16/10	117	120	91	93	Pass	Pass	Pass	Pass
CRHE-DPT100-033.0-20100616	06/16/10	117	121	91	92	Pass	Pass	Pass	Pass
CRHE-DPT100-038.0-20100616	06/16/10	113	115	94	92	Pass	Pass	Pass	Pass
CRHE-DPT100-043.0-20100616	06/16/10	111	111	92	94	Pass	Pass	Pass	Pass
CRHE-DPT100-048.0-20100616	06/16/10	114	115	93	94	Pass	Pass	Pass	Pass
CRHE-DPT101-010.0-20100616	06/16/10	118	117	94	95	Pass	Pass	Pass	Pass
CRHE-DPT101-014.0-20100616	06/16/10	113	112	93	96	Pass	Pass	Pass	Pass
CRHE-DPT101-018.0-20100616	06/16/10	113	111	93	95	Pass	Pass	Pass	Pass
CRHE-DPT101-023.0-20100616	06/16/10	115	113	90	94	Pass	Pass	Pass	Pass
CRHE-DPT101-010.0-20100616MS	06/16/10	110	106	94	97	Pass	Pass	Pass	Pass
CRHE-DPT101-010.0-20100616MSD	06/16/10	106	98	95	98	Pass	Pass	Pass	Pass
VSTD 20	06/16/10	102	95	97	96	Pass	Pass	Pass	Pass
RSTD 20	06/16/10	105	96	97	97	Pass	Pass	Pass	Pass
BLANK	06/16/10	111	109	91	89	Pass	Pass	Pass	Pass
CRHE-DPT099-038.0-20100616	06/16/10	113	108	93	92	Pass	Pass	Pass	Pass
CRHE-DPT100-028.0-20100616	06/16/10	115	106	94	91	Pass	Pass	Pass	Pass
CRHE-DPT101-023.0-20100616	06/16/10	114	113	90	91	Pass	Pass	Pass	Pass
VSTD 20	06/16/10	110	108	86	91	Pass	Pass	Pass	Pass
BLANK	06/16/10	109	114	92	88	Pass	Pass	Pass	Pass
CRHE-DPT101-028.0-20100616	06/16/10	111	119	89	88	Pass	Pass	Pass	Pass
CRHE-DPT101-033.0-20100616	06/16/10	109	113	92	89	Pass	Pass	Pass	Pass
CRHE-DPT101-038.0-20100616	06/16/10	110	114	95	87	Pass	Pass	Pass	Pass
CRHE-DPT101-043.0-20100616	06/16/10	115	120	91	88	Pass	Pass	Pass	Pass
CRHE-DPT101-048.0-20100616	06/16/10	4	116	91	87	< LCL	Pass	Pass	Pass
CRHE-DPT102-010.0-20100616	06/16/10	109	116	91	88	Pass	Pass	Pass	Pass
CRHE-DPT102-014.0-20100616	06/16/10	111	116	93	89	Pass	Pass	Pass	Pass
CRHE-DPT102-018.0-20100616	06/16/10	112	118	92	88	Pass	Pass	Pass	Pass
CRHE-DPT102-023.0-20100616	06/16/10	111	120	91	91	Pass	Pass	Pass	Pass
CRHE-DPT102-028.0-20100616	06/16/10	110	117	92	88	Pass	Pass	Pass	Pass
CRHE-DPT102-033.0-20100616	06/16/10	109	115	92	90	Pass	Pass	Pass	Pass
CRHE-DPT102-038.0-20100616	06/16/10	111	118	93	89	Pass	Pass	Pass	Pass
CRHE-DPT102-043.0-20100617	06/17/10	113	117	92	90	Pass	Pass	Pass	Pass
CRHE-DPT102-048.0-20100617	06/17/10	109	113	92	89	Pass	Pass	Pass	Pass
CRHE-DPT103-010.0-20100617	06/17/10	109	115	92	90	Pass	Pass	Pass	Pass
CRHE-DPT103-014.0-20100617	06/17/10	114	117	92	91	Pass	Pass	Pass	Pass
CRHE-DPT103-018.0-20100617	06/17/10	109	111	92	89	Pass	Pass	Pass	Pass
CRHE-DPT103-023.0-20100617	06/17/10	110	110	92	90	Pass	Pass	Pass	Pass
CRHE-DPT103-028.0-20100617	06/17/10	109	112	94	91	Pass	Pass	Pass	Pass
CRHE-DPT103-033.0-20100617	06/17/10	114	115	95	92	Pass	Pass	Pass	Pass
CRHE-DPT103-038.0-20100617	06/17/10	111	115	93	88	Pass	Pass	Pass	Pass
CRHE-DPT103-043.0-20100617	06/17/10	108	110	95	91	Pass	Pass	Pass	Pass
CRHE-DPT103-048.0-20100617	06/17/10	111	116	94	93	Pass	Pass	Pass	Pass
CRHE-DPT104-010.0-20100617	06/17/10	114	117	94	94	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
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Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT104-014.0-20100617	06/17/10	111	111	96	93	Pass	Pass	Pass	Pass
CRHE-DPT104-018.0-20100617	06/17/10	112	115	90	92	Pass	Pass	Pass	Pass
CRHE-DPT104-023.0-20100617	06/17/10	108	108	96	95	Pass	Pass	Pass	Pass
CRHE-DPT104-028.0-20100617	06/17/10	110	113	93	95	Pass	Pass	Pass	Pass
CRHE-DPT104-033.0-20100617	06/17/10	110	113	96	94	Pass	Pass	Pass	Pass
CRHE-DPT104-038.0-20100617	06/17/10	112	115	93	95	Pass	Pass	Pass	Pass
VSTD 20	06/17/10	107	111	93	97	Pass	Pass	Pass	Pass
VSTD 20	06/17/10	107	111	93	97	Pass	Pass	Pass	Pass
RSTD 20	06/17/10	101	99	99	97	Pass	Pass	Pass	Pass
BLANK	06/17/10	111	110	95	93	Pass	Pass	Pass	Pass
CRHE-DPT101-028.0-20100617	06/17/10	110	115	91	88	Pass	Pass	Pass	Pass
CRHE-DPT104-038.0-20100617	06/17/10	110	116	91	88	Pass	Pass	Pass	Pass
CRHE-DPT104-018.0-20100617MS	06/17/10	106	108	90	91	Pass	Pass	Pass	Pass
CRHE-DPT104-018.0-20100617MSD	06/17/10	102	103	91	92	Pass	Pass	Pass	Pass
VSTD 20	06/17/10	106	105	91	93	Pass	Pass	Pass	Pass
METHOD BLANK	06/17/10	110	112	93	90	Pass	Pass	Pass	Pass
CRHE-DPT104-043.0-20100617	06/17/10	110	117	92	88	Pass	Pass	Pass	Pass
CRHE-DPT104-048.0-20100617	06/17/10	111	116	91	88	Pass	Pass	Pass	Pass
CRHE-DPT105-010.0-20100617	06/17/10	109	109	92	88	Pass	Pass	Pass	Pass
CRHE-DPT105-014.0-20100617	06/17/10	111	110	93	92	Pass	Pass	Pass	Pass
CRHE-DPT105-018.0-20100617	06/17/10	110	109	94	88	Pass	Pass	Pass	Pass
CRHE-DPT105-023.0-20100617	06/17/10	110	112	92	90	Pass	Pass	Pass	Pass
CRHE-DPT105-028.0-20100617	06/17/10	113	114	90	91	Pass	Pass	Pass	Pass
CRHE-DPT105-033.0-20100617	06/17/10	110	112	92	91	Pass	Pass	Pass	Pass
CRHE-DPT105-038.0-20100617	06/17/10	110	112	90	90	Pass	Pass	Pass	Pass
CRHE-DPT105-043.0-20100617	06/17/10	112	114	93	91	Pass	Pass	Pass	Pass
CRHE-DPT105-048.0-20100617	06/17/10	112	110	94	91	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT010.0-20100618	06/18/10	113	113	92	90	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT014.0-20100618	06/18/10	114	110	93	92	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT018.0-20100618	06/18/10	113	112	92	90	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT023.0-20100618	06/18/10	110	108	91	92	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT028.0-20100618	06/18/10	113	111	93	92	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT033.0-20100618	06/18/10	114	114	93	95	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT038.0-20100618	06/18/10	113	113	94	95	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT043.0-20100618	06/18/10	114	114	94	94	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT048.0-20100618	06/18/10	111	111	94	97	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT048.0-20100618MS	06/18/10	104	100	96	100	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT048.0-20100618MSD	06/18/10	105	101	95	99	Pass	Pass	Pass	Pass
VSTD 20	06/18/10	101	95	96	98	Pass	Pass	Pass	Pass
VSTD 20	06/18/10	101	100	98	100	Pass	Pass	Pass	Pass
RSTD 20	06/18/10	102	103	95	98	Pass	Pass	Pass	Pass
BLANK	06/18/10	107	110	91	90	Pass	Pass	Pass	Pass
CRHE-DPT107-010.0-20100618	06/18/10	112	118	94	92	Pass	Pass	Pass	Pass
CRHE-DPT107-018.0-20200618	06/18/10	111	115	93	92	Pass	Pass	Pass	Pass
CRHE-DPT107-028.0-20100618	06/18/10	113	114	91	92	Pass	Pass	Pass	Pass

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Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT107-033.0-20100618	06/18/10	109	109	91	89	Pass	Pass	Pass	Pass
CRHE-DPT107-038.9-20100618	06/18/10	111	111	93	87	Pass	Pass	Pass	Pass
CRHE-DPT107-043.0-20100618	06/18/10	116	114	90	90	Pass	Pass	Pass	Pass
CRHE-DPT107-048.0-20100618	06/18/10	114	113	91	90	Pass	Pass	Pass	Pass
CRHE-DPT108-010.0-20100618	06/18/10	114	114	91	88	Pass	Pass	Pass	Pass
CRHE-DPT108-018.0-20101618	06/18/10	112	112	92	90	Pass	Pass	Pass	Pass
CRHE-DPT108-028.0-10100618	06/18/10	116	118	90	89	Pass	Pass	Pass	Pass
CRHE-DPT108-033.0-10100618	06/18/10	111	112	90	89	Pass	Pass	Pass	Pass
CRHE-DPT108-038.0-10100618	06/18/10	116	116	89	89	Pass	Pass	Pass	Pass
CRHE-DPT108-043.0-10100618	06/18/10	113	115	91	90	Pass	Pass	Pass	Pass
CRHE-DPT108-048.0-10100618	06/18/10	111	113	90	87	Pass	Pass	Pass	Pass
CRHE-DPT108-058.0-10100618	06/18/10	113	117	89	88	Pass	Pass	Pass	Pass
CRHE-DPT108-058.0-10100618MS	06/18/10	109	103	91	89	Pass	Pass	Pass	Pass
CRHE-DPT108-058.0-10100618MSD	06/18/10	105	104	93	91	Pass	Pass	Pass	Pass
VSTD 20	06/18/10	107	103	92	92	Pass	Pass	Pass	Pass
CCS	06/21/10	106	111	94	92	Pass	Pass	Pass	Pass
LCS	06/21/10	95	113	93	92	Pass	Pass	Pass	Pass
METHOD BLANK	06/21/10	114	122	94	90	Pass	Pass	Pass	Pass
CRHE-DPT109-010.0-20100621	06/21/10	113	118	94	91	Pass	Pass	Pass	Pass
CRHE-DPT109-018.0-20100621	06/21/10	112	119	95	90	Pass	Pass	Pass	Pass
CRHE-DPT109-028.0-20100621	06/21/10	110	118	94	90	Pass	Pass	Pass	Pass
CRHE-DPT109-033.0-20100621	06/21/10	112	118	94	91	Pass	Pass	Pass	Pass
CRHE-DPT109-038.0-20100621	06/21/10	110	116	95	90	Pass	Pass	Pass	Pass
CRHE-DPT109-043.0-20100621	06/21/10	114	118	91	90	Pass	Pass	Pass	Pass
CRHE-DPT109-048.0-20100621	06/21/10	109	116	92	90	Pass	Pass	Pass	Pass
CRHE-DPT110-033.0-20100621	06/21/10	111	117	94	93	Pass	Pass	Pass	Pass
CRHE-DPT110-038.0-20100621	06/21/10	94	113	94	90	Pass	Pass	Pass	Pass
CRHE-DPT110-043.0-20100621	06/21/10	109	112	94	91	Pass	Pass	Pass	Pass
CRHE-DPT110-048.0-20100621	06/21/10	114	120	96	90	Pass	Pass	Pass	Pass
CRHE-DPT111-010.0-20100621	06/21/10	112	118	92	90	Pass	Pass	Pass	Pass
CRHE-DPT111-018.0-20100621	06/21/10	110	114	95	90	Pass	Pass	Pass	Pass
CRHE-DPT111-028.0-20100621	06/21/10	113	114	92	91	Pass	Pass	Pass	Pass
CRHE-DPT111-033.0-20100621	06/21/10	113	114	94	90	Pass	Pass	Pass	Pass
CRHE-DPT111-038.0-20100621	06/21/10	114	115	93	91	Pass	Pass	Pass	Pass
CRHE-DPT111-043.0-20100621	06/21/10	112	111	96	89	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT111-048.0-20100621	06/21/10	110	110	94	88	Pass	Pass	Pass	Pass
CRHE-DPT111-058.0-20100621	06/21/10	114	112	93	90	Pass	Pass	Pass	Pass
CRHE-DPT112-010.0-20100621	06/21/10	113	110	95	90	Pass	Pass	Pass	Pass
CRHE-DPT112-018.0-20100621	06/21/10	114	111	92	91	Pass	Pass	Pass	Pass
CRHE-DPT112-028.0-20100621	06/21/10	114	112	92	89	Pass	Pass	Pass	Pass
CRHE-DPT112-033.0-20100621	06/21/10	108	108	98	90	Pass	Pass	Pass	Pass
CRHE-DPT112-038.0-20100621	06/21/10	108	105	96	92	Pass	Pass	Pass	Pass
CRHE-DPT112-043.0-20100621	06/21/10	101	108	96	89	Pass	Pass	Pass	Pass
CRHE-DPT112-048.0-20100621	06/21/10	111	106	99	90	Pass	Pass	Pass	Pass
CRHE-DPT112-048.0-20100621MS	06/21/10	103	96	96	94	Pass	Pass	Pass	Pass
CRHE-DPT112-048.0-20100621MSD	06/21/10	103	96	96	95	Pass	Pass	Pass	Pass
LCS 20	06/21/10	99	90	98	94	Pass	Pass	Pass	Pass
LCS 20	06/23/10	94	99	96	101	Pass	Pass	Pass	Pass
CCS 20	06/23/10	103	105	94	85	Pass	Pass	Pass	Pass
METHOD BLANK	06/23/10	110	112	94	90	Pass	Pass	Pass	Pass
CRHE-DPT113-010.0-20100623	06/23/10	110	113	94	89	Pass	Pass	Pass	Pass
CRHE-DPT113-018.0-20100623	06/23/10	109	113	93	87	Pass	Pass	Pass	Pass
CRHE-DPT113-028.0-20100623	06/23/10	113	117	94	88	Pass	Pass	Pass	Pass
CRHE-DPT113-033.0-20100623	06/23/10	110	116	92	90	Pass	Pass	Pass	Pass
METHOD BLANK RERUN	06/23/10	110	118	93	91	Pass	Pass	Pass	Pass
VSTD 20	06/23/10	104	104	95	92	Pass	Pass	Pass	Pass
CRHE-DPT113-038.0-20100623	06/23/10	111	117	93	90	Pass	Pass	Pass	Pass
CRHE-DPT113-043.0-20100623	06/23/10	110	116	94	89	Pass	Pass	Pass	Pass
CRHE-DPT113-048.0-20100623	06/23/10	114	120	90	88	Pass	Pass	Pass	Pass
CRHE-DPT114-010.0-20100623	06/23/10	110	117	95	88	Pass	Pass	Pass	Pass
CRHE-DPT114-018.0-20100623	06/23/10	113	115	95	89	Pass	Pass	Pass	Pass
CRHE-DPT114-028.0-20100623	06/23/10	113	117	93	89	Pass	Pass	Pass	Pass
CRHE-DPT114-033.0-20100623	06/23/10	111	115	94	88	Pass	Pass	Pass	Pass
CRHE-DPT114-038.0-20100623	06/23/10	109	111	95	90	Pass	Pass	Pass	Pass
CRHE-DPT114-043.0-20100623	06/23/10	107	111	92	88	Pass	Pass	Pass	Pass
CRHE-DPT114-048.0-20100623	06/23/10	111	110	95	88	Pass	Pass	Pass	Pass
CRHE-DPT115-010.0-20100623	06/23/10	110	108	93	90	Pass	Pass	Pass	Pass
CRHE-DPT115-018.0-20100623	06/23/10	108	105	96	89	Pass	Pass	Pass	Pass
CRHE-DPT115-028.0-20100623	06/23/10	111	106	98	89	Pass	Pass	Pass	Pass
CRHE-DPT115-033.0-20100623	06/23/10	112	105	97	89	Pass	Pass	Pass	Pass
CRHE-DPT115-038.0-20100623	06/23/10	108	104	96	89	Pass	Pass	Pass	Pass
CRHE-DPT115-043.0-20100623	06/23/10	112	105	95	90	Pass	Pass	Pass	Pass
CRHE-DPT115-048.0-20100623	06/23/10	110	103	97	91	Pass	Pass	Pass	Pass
CRHE-DPT115-048.0-20100623MS	06/23/10	102	94	98	93	Pass	Pass	Pass	Pass
CRHE-DPT115-048.0-20100623MSD	06/23/10	101	90	98	94	Pass	Pass	Pass	Pass
VSTD 20	06/23/10	100	90	98	94	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-137
Onsite Dates: 6/14/10-6/24/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT099-010.0 **Date of Analysis:** 6/15/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	91	99	9	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	90	99	9	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	97	105	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	89	9	Pass	Pass	Pass
Trichloroethene	70	136	20	84	98	15	Pass	Pass	Pass
Tetrachloroethene	57	152	20	80	89	11	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT101-010.0 **Date of Analysis:** 6/16/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	108	109	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	103	106	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	117	125	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	100	101	1	Pass	Pass	Pass
Trichloroethene	70	136	20	95	96	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	89	93	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT104-018.8 **Date of Analysis:** 6/17/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	75	66	12	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	84	74	12	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	92	83	10	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	90	83	8	Pass	Pass	Pass
Trichloroethene	70	136	20	94	84	12	Pass	Pass	Pass
Tetrachloroethene	57	152	20	88	84	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT106-048.0 **Date of Analysis:** 6/18/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	95	98	2	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	94	97	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	98	102	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	89	95	6	Pass	Pass	Pass
Trichloroethene	70	136	20	90	93	4	Pass	Pass	Pass
Tetrachloroethene	57	152	20	90	90	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-137
Onsite Dates: 6/14/10-6/24/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT108-058.0 **Date of Analysis:** 6/18/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	101	95	5	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	94	91	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	100	98	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	93	93	0	Pass	Pass	Pass
Trichloroethene	70	136	20	91	91	0	Pass	Pass	Pass
Tetrachloroethene	57	152	20	88	91	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT112-048.0 **Date of Analysis:** 6/22/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	100	105	4	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	92	96	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	97	101	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	91	10	Pass	Pass	Pass
Trichloroethene	70	136	20	89	96	8	Pass	Pass	Pass
Tetrachloroethene	57	152	20	85	90	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT115-048.0 **Date of Analysis:** 6/24/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	109	104	4	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	97	95	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	102	102	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	91	90	2	Pass	Pass	Pass
Trichloroethene	70	136	20	93	79	16	Pass	Pass	Pass
Tetrachloroethene	57	152	20	91	93	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-137
Onsite Dates: 6/14/10-6/24/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 6/14/2010
LCS 2 — 6/15/2010
LCS 3 — 6/16/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	28	to	161	95	100	110	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	98	99	107	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	99	108	117	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	84	91	102	Pass	Pass	Pass
Trichloroethene	47	to	164	105	89	98	Pass	Pass	Pass
Tetrachloroethene	60	to	151	94	91	102	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 6/17/2010
LCS 5 — 6/18/2010
LCS 6 — 6/21/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	28	to	161	96	97	87	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	94	96	83	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	98	95	87	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	92	95	76	Pass	Pass	Pass
Trichloroethene	47	to	164	88	90	96	Pass	Pass	Pass
Tetrachloroethene	60	to	151	89	93	76	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 6/21/2010
LCS 8 — 6/23/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8		LCS#7	LCS#8	
Vinyl Chloride	28	to	161	106	152		Pass	Pass	
1,1-Dichloroethene	43	to	156	95	154		Pass	Pass	
Trans-1,2-Dichloroethene	61	to	133	102	147		Pass	> UCL	
Cis-1,2-Dichloroethene	60	to	150	93	143		Pass	Pass	
Trichloroethene	47	to	164	91	111		Pass	Pass	
Tetrachloroethene	60	to	151	92	94		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0097-010.0-20100614	6/14/10	Water	1,10	**160**	<1.0	<1.0	**28.8**	<1.0	<1.0
CRHE-DPT0097-014.0-20100614	6/14/10	Water	20,50	**1500**	<20	**72**	**3100**	<5.8 I	<20
CRHE-DPT0097-018.0-20100614	6/14/10	Water	200	**1000**	<200	**520**	**16000**	<58 I	<200
CRHE-DPT0097-023.0-20100614	6/14/10	Water	1000	**1500**	<1000	**2100**	**52000**	**3800**	<1000
CRHE-DPT0097-028.0-20100614	6/14/10	Water	100	**1400**	<100	**110**	**3200**	<29 I	<100
CRHE-DPT0097-033.0-20100614	6/15/10	Water	5	**1.6 I**	<5.0	<5.0	**4.6 I**	<1.4 I	<5.0
CRHE-DPT0097-038.0-20100614	6/15/10	Water	1	**1.6**	<1.0	<1.0	**8.9**	<1.0	<1.0
CRHE-DPT0097-043.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0
CRHE-DPT0097-048.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	**8.6**	<1.0	<1.0
CRHE-DPT0098-010.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-014.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-018.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-023.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-028.0-20100614	6/15/10	Water	2	**7.6**	<2.0	<2.0	<2.0	<1.0 I	<2.0
CRHE-DPT0098-033.0-20100614	6/15/10	Water	100	**320**	<100	**120**	**1000**	**580**	<100
CRHE-DPT0098-038.0-20100614	6/15/10	Water	2000	**13000**	<2000	**700 I**	**49000**	**36000**	<2000
CRHE-DPT0098-043.0-20100614	6/15/10	Water	20	**64**	<20	**5.4 I**	**220**	**23**	<20
CRHE-DPT0098-048.0-20100614	6/15/10	Water	10	**6.4 I**	<10	<10	**19**	**16**	<10
CRHE-DPT0099-010.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0099-014.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0099-018.0-20100615	6/15/10	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0099-023.0-20100615	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0099-028.0-20100615	6/15/10	Water	5	**180**	<5.0	**8.8**	**32**	<1.4 I	<5.0
CRHE-DPT0099-033.0-20100615	6/15/10	Water	200	**13000**	<200	**82 I**	**6500**	<200	<200
CRHE-DPT0099-038.0-20100615	6/16/10	Water	10, 200	**4900**	<10	**11**	**370**	<2.9 I	<10
CRHE-DPT0099-043.0-20100615	6/16/10	Water	1	**1.9**	<1.0	<1.0	**1.5**	<1.0	<1.0
CRHE-DPT0099-048.0-20100615	6/16/10	Water	1	**2.6**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0100-010.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-014.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-018.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0100-023.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-028.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-033.0-20100615	6/16/10	Water	1000	**7400**	<1000	**620 I**	**31000**	**21000**	<1000
CRHE-DPT0100-038.0-20100615	6/16/10	Water	2000	**17000**	<2000	**780 I**	**59000**	**32000**	<2000
CRHE-DPT0100-043.0-20100615	6/16/10	Water	5	**72**	<5.0	**6.6**	**380**	**210**	<5.0
CRHE-DPT0100-048.0-20100615	6/16/10	Water	1	**5.4**	<1.0	<1.0	**28.0**	**19.5**	<1.0
CRHE-DPT0101-010.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-014.0-20100615	6/16/10	Water	1	**1.6**	<1.0	<1.0	**1.1**	<1.0	<1.0
CRHE-DPT0101-018.0-20100615	6/16/10	Water	1	**8.8**	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0101-023.0-20100615	6/16/10	Water	1	**30.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-028.0-20100615	6/16/10	Water	1,10	**260**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-033.0-20100615	6/16/10	Water	10	**120**	<10	<10	<10	<2.9 I	<10
CRHE-DPT0101-038.0-20100615	6/16/10	Water	1	**12.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-043.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-048.0-20100615	6/16/10	Water	1	**3.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-010.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-014.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-018.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-023.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-028.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-033.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-038.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-043.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-048.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-010.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-014.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-018.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-023.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-028.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-033.0-20100616	6/17/10	Water	2	**13**	<2.0	<2.0	<2.0	<1.0 I	<2.0

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0103-038.0-20100616	6/17/10	Water	200	**4000**	<200	**160 I**	**8700**	**2900**	<200
CRHE-DPT0103-043.0-20100616	6/17/10	Water	100	**690**	<100	**57 I**	**2200**	**1300**	<100
CRHE-DPT0103-048.0-20100616	6/17/10	Water	5	<1.2 I	<5.0	<5.0	**3.0 I**	**2.4 I**	<5.0
CRHE-DPT0104-010.0-20100616	6/17/10	Water	5	<1.2 I	<5.0	<5.0	<5.0	<1.4 I	<5.0
CRHE-DPT0104-014.0-20100616	6/17/10	Water	5	<1.2 I	<5.0	<5.0	<5.0	<1.4 I	<5.0
CRHE-DPT0104-018.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-023.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-028.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-033.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-038.0-20100616	6/17/10	Water	1,10	**530**	<1.0	**1.8**	<1.0	<1.0	<1.0
CRHE-DPT0104-043.0-20100617	6/17/10	Water	10	**790**	<10	<10	**61**	<2.8 I	<10
CRHE-DPT0104-048.0-20100617	6/17/10	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-010.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-014.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-018.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-023.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-028.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-033.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-038.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-043.0-20100617	6/17/10	Water	1	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-048.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-010.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-014.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-018.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-023.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-028.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-033.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-038.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-043.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-048.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0107-010.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-018.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-028.0-20100618	6/18/10	Water	1	**21.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-033.0-20100618	6/18/10	Water	1	**15.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-038.0-20100618	6/18/10	Water	1	**3.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-043.0-20100618	6/18/10	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-048.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-010.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-018.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-028.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-033.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-038.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-043.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-048.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-058.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-010.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-018.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-028.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-033.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-038.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-043.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-048.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-033.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-038.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-043.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-048.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-010.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-018.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-028.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-033.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0111-038.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-043.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-048.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-058.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-010.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-018.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-028.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-033.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-038.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-043.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-048.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-010.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-018.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-028.0-20100622	6/23/10	Water	1	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-033.0-20100622	6/23/10	Water	1	**6.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-038.0-20100622	6/23/10	Water	1	**3.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-043.0-20100622	6/23/10	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-048.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-010.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-018.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-028.0-20100622	6/23/10	Water	1	**3.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-033.0-20100622	6/23/10	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-038.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-043.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-048.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-010.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-018.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-028.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-033.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-038.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0115-043.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-048.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT #

| CLIENT NAME | PROJECT NAME & ADDRESS | | |

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CAFE - KSC

SAMPLERS

CONTACT PERSON: Jan Burkus

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT098-38.0 2010	0614	1535		✓	0614			W	2	✓	
-43.0		1557									
-48.0		1624									
DPT099-10.0		1825									
-14.0		1837									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/14/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRTE KSC
SAMPLERS	**CONTACT PERSON**
✓	Jan Barfus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
FHE DPT099-18.0 2010	0615	0751		✓	6/15/10	1245		W	2	✓	
-23.0		0805									
-28.0		0821									
-33.0		0847									
-38.0		0912									
-43.0		0931									
-48.0		0952				✓					
DPT100-10.0		1047				1755					
14.0		1057									
18.0		1110									
23.0		1120									
28.0		1136									
33.0		1150									
38.0		1313									
43.0	✓	1332		✓	✓	✓		✓	✓	✓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/15/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT #

CLIENT NAME: Ecosystec

PROJECT NAME & ADDRESS: CRHE KSC

SAMPLERS:

CONTACT PERSON: Jan Bartus

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT100-48.0 2010	0615	1354		✓	6/15/10	1755		W	2	✓	
DPT101-10.0		1529									
-14.0		1538									
-18.0		1548									
-23.0		1600									
-28.0		1613									
-33.0		1628									
-38.0		1646									
-43.0		1705									
-48.0		1724									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/15/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KBI

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC

SAMPLERS: ✓

CONTACT PERSON: Jay Barfus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE-DPT0102-010.0-20100616	6/16/10	0813		✓	6/16/10	1733		W	2	✓	
-014.0		0835									
-018.0		0850									
-023.0		0900									
-028		0917									
-033		0937									
-038		1000									
-043		1018									
-048		1040									
DPT103-010		1130									
-014		1136									
-018		1149									
-023		1200									
-028		1216									
-033		1331									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/16/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CAFE KSC

SAMPLERS: /

CONTACT PERSON: Jan Bartus

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0103-038.0 2010	6/16	1346		✓	6/16/10	1733		W	2	✓	
-043.0		1410									
-048.0		1505									
DPT01M-010		1548									
-014		1600									
-018		1614									
-023		1626									
-028		1639									
-033		1653									
-038 ✓		1708									

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time 6/16/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CLHE KSC

SAMPLERS

CONTACT PERSON: Jan Banks

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CLHE DPT0104-0430 2010	6/17	0809		✓	06/17/10	1750		W	2	✓	
048.0		0834									
DPT0105-010.0		0913									
-014.0		0933									
-018.0		0948									
-023.0		1000									
-028.0		1016									
-033.0		1030									
-038.0		1056									
-043.0		1116									
-048.0		1135									
DPT0106-010.0		1320									
-014.0		1329									
-018.0		1341									
-023.0		1407									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/17/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geo Syntec

PROJECT NAME & ADDRESS: CRTF KSC

SAMPLERS

CONTACT PERSON: Jan Banks

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRTF DPT2106-028.0 2010	0617	1603		✓	6/17/10	1750		W	2	✓	
-033.0		1617									
-038.0		1648									
-043.0		1705									
-048.0		1725									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/17/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CHRE

SAMPLERS

CONTACT PERSON: JAN Barfus

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE-DDT0107-010.0-2010	0618	0852			6/18/10	0930		W	2		
-018.0		0904									
-028.0		0919				↓					
-033.0		0934				1100					
-038.0		1007									
-043.0		1022									
-048.0		1041				↓					
DFT0108-010.0		1133				1213					
-018.0		1144									
-028.0		1156									
-033.0		1210				↓					
-038.0		1227				1306					
-043.0		1244				↓					
-048.0		1334				1405					
-058.0	↓	1354			↓	↓		↓	↓	↓	

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Precleaned Containers Relinquished by: *(Signature)*				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		[signature]	6/18/10 1405	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KBI

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE ; KSC

SAMPLERS:

CONTACT PERSON: Jan Barnes

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0109-010.0 2010	6/2	0718		✓	6/21/10	1800		W	✓	✓	
18		0733									
28		0747									
33		0802									
38		0823									
43		0844									
48		0905									
DPT0110-033.0		1014									
38		1030									
43		1050									
48		1107									
DPT0111-010.0		1150									
18		1200									
28		1213									
33		1227									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/21/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1651

CLIENT NAME: GeoSynTec

PROJECT NAME & ADDRESS: CCAFS, KSC

SAMPLERS

CONTACT PERSON: Jan Burks

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0111-038.0 2010	0610	1321		✓	6/7/10	1800		W	2	1	
-043		1351									
-048		1416									
-058		1448									
DPT0112-010		1547									
18		1556									
28		1610									
33		1627							1		* one bottle about half mud
38		1656							2		
43		1715									
48		1731									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/7/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE

SAMPLERS:

CONTACT PERSON: Jan Bartus

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE											
DPT013-010.0-20100622		0813		✓	6/22/10	1800		W	2	✓	
018.0		0823									
028.0		0834									
033.0		0850									
038.0		0924									
043.0		0945									
048.0		1016									
DPT014-010.0		1055 ~~1105~~									
018.0		1105 1117									
028.0		1117 1122									
033.0		1122 ~~1205~~									
038.0		1205 ~~1220~~									
043.0		1220 ~~1337~~									
048.0	6/22/10	1337 ~~1425~~		✓							

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/22/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRA CHRE

SAMPLERS:

CONTACT PERSON: Jan Barkus

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE											
DPT0115-010.0-20100622		1425		✓	6/22/10	1800		W	2	✓	
018.0		1438									
~~023.0~~		~~1447~~									
028.0		~~1506~~ 1447									
033.0		~~1534~~ 1506									
038.0	6/23/10	~~1552~~ 1534									
043.0		1552									
048.0		1607		↓							

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/24/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

August 13, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-169

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from August 2 to 12, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
25132 SW 1st Ave
Newberry, FL 32669
Phone: 352-472-5830
Fax: 352-472-5832
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From August 2 to 12, 2010, a total of 180 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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Newberry, FL 32669
Phone: 352-472-5830
Fax: 352-472-5832
Email: info@kbmobilelabs.com

ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHE-DPT0117-048.0-20100802 reported vinyl chloride <1.0 changed to 4.7ug/L.

3. Sample IDCRHE-DPT0126-018.0-20100805 reported c-1, 2-dichloroethene <1.0 changed to 2.1ug/L.

4. Sample ID CRHE-IDW178747-20100806 has an "L" qualifier for c-1, 2-dichloroethene indicating the concentration exceeded Calibration range.

5. Sample ID CRHE-DPT0135-038.0-20100810 has an "L" qualifier for vinyl chloride indicating the Concentration exceeded Calibration range.

6. Changes for sample ID CRHE-DPT0134-043.0-20100810 reported: vinyl chloride 790 changed to 200ug/L.

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t-1,2-dichloroethene 38 I changed to 43 I.
c-1,2-dichloroethene 2800 changed to 1500ug/L.
trichloroethene 50 changed to 1500ug/L.

7. Sample ID CRHE-DPT0136-043.0-20100810 reported c-1, 2-dichloroethene 1.8 changed to <1.0ug/L.

8. Sample ID CRHE-DPT0136-043.0-20100810 should be CRHE-DPT0136-048.0-20100810.

9. As per NASA Client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier “I” some results were changed from the field Report to the Final Report to reflect this requirement.

10. Because the presence of high level freon compounds and to prevent damage to the analytical instrument, several samples were diluted without any target compounds being identified:

    CRHE-DPT116-018.0-20100802
    CRHE-DPT116-028.0-20100802
    CRHE-DPT116-033.0-20100802
    CRHE-DPT117-038.0-20100802

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	08/02/10	103	114	105	100	Pass	Pass	Pass	Pass
BLANK	08/02/10	108	119	101	98	Pass	Pass	Pass	Pass
RSTD 20	08/02/10	96	88	113	103	Pass	Pass	> UCL	Pass
CRHE-DPT0116-010.0	08/02/10	108	95	95	99	Pass	Pass	Pass	Pass
CRHE-DPT0116-018.0 1:100	08/02/10	103	92	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0116-028.0 1:100	08/02/10	104	97	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0116-033.0 1:50	08/02/10	112	98	102	97	Pass	Pass	Pass	Pass
CRHE-DPT0116-038.0	08/02/10	100	99	101	95	Pass	Pass	Pass	Pass
CRHE-DPT0116-043.0	08/02/10	113	98	102	94	Pass	Pass	Pass	Pass
CRHE-DPT0116-048.0	08/02/10	103	84	95	98	Pass	Pass	Pass	Pass
CRHE-DPT0117-018.0	08/02/10	106	97	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0117-010.0	08/02/10	112	111	105	100	Pass	Pass	Pass	Pass
VSTD 20	08/02/10	101	95	106	101	Pass	Pass	Pass	Pass
VSTD 20	08/03/10	105	125	102	99	Pass	Pass	Pass	Pass
BLANK	08/03/10	113	124	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0117-028.0	08/03/10	108	120	102	100	Pass	Pass	Pass	Pass
CRHE-DPT0117-033.0	08/03/10	87	103	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0117-038.0 1:20	08/03/10	111	129	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0117-043.0	08/03/10	112	128	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0117-048.0	08/03/10	112	132	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0118-010.0	08/03/10	114	133	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0118-018.0	08/03/10	114	133	103	96	Pass	Pass	Pass	Pass
CRHE-DPT0118-028.0	08/03/10	116	140	102	99	Pass	> UCL	Pass	Pass
CRHE-DPT0118-033.0	08/03/10	68	81	97	99	< LCL	Pass	Pass	Pass
CRHE-DPT0118-038.0 1:5	08/03/10	113	141	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0118-043.0	08/03/10	119	146	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0118-048.0	08/03/10	120	144	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0119-010.0	08/03/10	116	140	102	96	Pass	> UCL	Pass	Pass
CRHE-DPT0119-014.0	08/03/10	116	134	104	96	Pass	> UCL	Pass	Pass
CRHE-DPT0119-018.0	08/03/10	119	146	99	95	Pass	> UCL	Pass	Pass
CRHE-DPT0119-023.0	08/03/10	118	149	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0119-028.0	08/03/10	120	150	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0119-033.0	08/03/10	69	94	93	103	< LCL	Pass	Pass	Pass
CRHE-DPT0119-038.0	08/03/10	120	148	101	95	Pass	> UCL	Pass	Pass
CRHE-DPT0119-043.0	08/03/10	120	150	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0119-048.0	08/03/10	120	153	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0120-010.0	08/03/10	119	147	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0120-014.0	08/03/10	120	146	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0120-018.0 1:10	08/03/10	72	96	93	100	< LCL	Pass	Pass	Pass
CRHE-DPT0120-023.0 1:100	08/03/10	120	152	99	95	Pass	> UCL	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0120-028.0 1:2	08/03/10	120	157	99	95	Pass	> UCL	Pass	Pass
CRHE-DPT0120-033.0	08/03/10	122	151	98	96	> UCL	> UCL	Pass	Pass
CRHE-DPT0120-038.0	08/03/10	119	148	99	94	Pass	> UCL	Pass	Pass
CRHE-DPT0120-043.0	08/03/10	122	158	99	95	> UCL	> UCL	Pass	Pass
CRHE-DPT0120-048.0	08/03/10	121	154	101	95	Pass	> UCL	Pass	Pass
CRHE-DPT0121-010.0	08/03/10	122	150	99	96	> UCL	> UCL	Pass	Pass
CRHE-DPT0121-014.0	08/03/10	120	151	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0121-018.0	08/03/10	118	153	101	99	Pass	> UCL	Pass	Pass
CRHE-DPT0120-048.0 MSD	08/03/10	111	151	104	98	Pass	> UCL	Pass	Pass
LCS	08/03/10	112	156	103	96	Pass	> UCL	Pass	Pass
CCS 20	08/03/10	107	151	104	95	Pass	> UCL	Pass	Pass
VSTD 20	08/04/10	97	113	104	98	Pass	Pass	Pass	Pass
LCS	08/04/10	103	130	104	97	Pass	Pass	Pass	Pass
BLANK	08/04/10	110	120	104	99	Pass	Pass	Pass	Pass
CRHE-DPT0121-023.0	08/04/10	116	132	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0119-033.0 1:5	08/04/10	117	140	101	99	Pass	> UCL	Pass	Pass
CRHE-DPT0121-028.0	08/04/10	113	135	102	101	Pass	> UCL	Pass	Pass
CRHE-DPT0121-033.0	08/04/10	112	136	103	100	Pass	> UCL	Pass	Pass
CRHE-DPT0121-038.0 1:100	08/04/10	114	139	102	103	Pass	> UCL	Pass	Pass
CRHE-DPT0121-043.0 1:50	08/04/10	115	145	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0121-048.0	08/04/10	116	148	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-010.0	08/04/10	117	144	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-014.0	08/04/10	118	148	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0122-018.0	08/04/10	119	153	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0122-023.0	08/04/10	116	148	101	100	Pass	> UCL	Pass	Pass
CRHE-DPT0122-028.0	08/04/10	121	152	98	97	Pass	> UCL	Pass	Pass
CRHE-DPT0122-033.0	08/04/10	118	150	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0122-038.0 1:100	08/04/10	119	156	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0122-043.0 1:100	08/04/10	118	154	99	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-048.0	08/04/10	117	149	101	99	Pass	> UCL	Pass	Pass
CRHE-DPT0122-010.0 MS	08/04/10	110	150	103	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-010.0 MSD	08/04/10	107	145	104	96	Pass	> UCL	Pass	Pass
CRHE-DPT0121-023.0 MS	08/04/10	108	148	103	96	Pass	> UCL	Pass	Pass
CRHE-DPT0121-023.0 MSD	08/04/10	109	149	104	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-010.0	08/04/10	116	146	103	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-014.0	08/04/10	114	149	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0123-018.0	08/04/10	116	145	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-023.0	08/04/10	108	138	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0123-028.0	08/04/10	116	149	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-033.0	08/04/10	119	151	100	97	Pass	> UCL	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0123-038.0	08/04/10	118	149	100	96	Pass	> UCL	Pass	Pass
CCS 20	08/04/10	113	160	102	97	Pass	> UCL	Pass	Pass
VSTD 20	08/05/10	105	131	105	97	Pass	Pass	Pass	Pass
LCS 20	08/05/10	108	138	103	96	Pass	> UCL	Pass	Pass
BLANK	08/05/10	114	130	104	98	Pass	Pass	Pass	Pass
CRHE-DPT0123-038.0 MS	08/05/10	104	134	104	99	Pass	> UCL	Pass	Pass
CRHE-DPT0123-038.0 MSD	08/05/10	106	137	103	99	Pass	> UCL	Pass	Pass
CRHE-DPT0123-043.0	08/05/10	81	103	98	102	< LCL	Pass	Pass	Pass
CRHE-DPT0123-048.0	08/05/10	112	134	103	99	Pass	> UCL	Pass	Pass
CRHE-DPT0123-043.0	08/05/10	109	129	105	100	Pass	Pass	Pass	Pass
CRHE-DPT0124-010.0	08/05/10	116	141	102	100	Pass	> UCL	Pass	Pass
CRHE-DPT0124-014.0	08/05/10	115	143	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-018.0 1:5	08/05/10	112	140	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-023.0 1:50	08/05/10	114	142	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-028.0	08/05/10	110	134	105	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-033.0	08/05/10	114	148	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-038.0 1:5	08/05/10	117	148	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-043.0	08/05/10	119	147	103	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-048.0	08/05/10	115	149	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-018.0 1:100	08/05/10	117	149	100	98	Pass	> UCL	Pass	Pass
CRHE-DPT0125-010.0	08/05/10	109	133	102	96	Pass	Pass	Pass	Pass
CRHE-DPT0125-018.0	08/05/10	119	151	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0125-028.0	08/05/10	118	145	99	101	Pass	> UCL	Pass	Pass
CRHE-DPT0125-033.0	08/05/10	116	150	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0125-038.0	08/05/10	118	146	99	94	Pass	> UCL	Pass	Pass
CRHE-DPT0125-043.0 1:20	08/05/10	117	144	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0125-048.0	08/05/10	117	149	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0126-010.0	08/05/10	78	98	97	99	< LCL	Pass	Pass	Pass
CRHE-DPT0126-018.0	08/05/10	117	150	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0126-028.0	08/05/10	119	145	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-033.0	08/05/10	121	150	100	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-038.0	08/05/10	116	148	100	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-043.0	08/05/10	118	150	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0126-010.0 MS	08/05/10	114	156	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-010.0 MSD	08/05/10	114	156	100	95	Pass	> UCL	Pass	Pass
CCS 20	08/05/10	114	158	100	93	Pass	> UCL	Pass	Pass
VSTD 20	08/06/10	104	131	102	99	Pass	Pass	Pass	Pass
LCS	08/06/10	108	136	100	98	Pass	> UCL	Pass	Pass
BLANK	08/06/10	114	130	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0126-048.0	08/06/10	113	129	100	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0126-048.0 MS	08/06/10	108	137	103	100	Pass	> UCL	Pass	Pass
CRHE-DPT0126-048.0 MSD	08/06/10	109	143	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0127-033.0	08/06/10	113	138	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0127-038.0	08/06/10	116	138	100	98	Pass	> UCL	Pass	Pass
CRHE-DPT0127-043.0 1:100	08/06/10	96	113	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0127-048.0 1:5	08/06/10	111	142	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0128-033.0	08/06/10	116	142	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0128-038.0	08/06/10	117	142	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0128-043.0	08/06/10	118	144	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0128-048.0	08/06/10	115	146	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0129-010.0	08/06/10	119	146	100	94	Pass	> UCL	Pass	Pass
CRHE-DPT0129-018.0	08/06/10	114	138	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0129-028.0	08/06/10	118	147	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0129-033.0	08/06/10	118	144	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0129-038.0	08/06/10	102	122	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0129-043.0 1:100	08/06/10	117	142	100	100	Pass	> UCL	Pass	Pass
CRHE-DPT0129-048.0 1:10	08/06/10	114	140	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0130-033.0	08/06/10	117	143	99	96	Pass	> UCL	Pass	Pass
CRHE-DPT0130-038.0	08/06/10	64	81	93	95	< LCL	Pass	Pass	Pass
CCS 20	08/06/10	112	154	100	95	Pass	> UCL	Pass	Pass
VSTD 20	08/09/10	108	124	103	98	Pass	Pass	Pass	Pass
BLANK	08/09/10	112	128	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0130-043.0	08/09/10	111	128	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0130-048.0	08/09/10	111	127	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0130-038.0 1:20	08/09/10	114	138	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0130-043.0 1:10	08/09/10	113	134	103	97	Pass	> UCL	Pass	Pass
CRHE-DPT0131-033.0 1:20	08/09/10	112	137	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0131-038.0 1:50	08/09/10	115	134	102	96	Pass	> UCL	Pass	Pass
CRHE-DPT0131-043.0 1:50	08/09/10	114	138	102	95	Pass	> UCL	Pass	Pass
CRHE-DPT0131-048.0 1:100	08/09/10	72	84	97	98	< LCL	Pass	Pass	Pass
CRHE-IDW178747-20100806	08/09/10	116	146	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0132-010.0	08/09/10	85	103	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0132-018.0	08/09/10	120	150	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0132-024.0	08/09/10	121	148	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0132-033.0	08/09/10	116	150	102	93	Pass	> UCL	Pass	Pass
CRHE-DPT0132-038.0	08/09/10	118	147	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0132-043.0	08/09/10	118	146	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0132-048.0	08/09/10	120	152	99	94	Pass	> UCL	Pass	Pass
LCS	08/09/10	112	147	101	95	Pass	> UCL	Pass	Pass
VSTD 1	08/09/10	116	119	102	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
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KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 5	08/09/10	109	120	99	95	Pass	Pass	Pass	Pass
VSTD 10	08/09/10	80	110	98	98	< LCL	Pass	Pass	Pass
CRHE-DPT0133-010.0	08/09/10	109	114	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0133-014.0	08/09/10	106	110	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0133-018.0 1:20	08/09/10	116	131	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0133-023.0 1:500	08/09/10	114	131	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0133-028.0 1:200	08/09/10	114	132	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0133-033.0 1:20	08/09/10	114	131	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0133-038.0 1:50	08/09/10	110	129	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0133-043.0	08/09/10	110	126	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0133-048.0	08/09/10	108	124	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0134-010.0	08/09/10	108	118	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0134-014.0	08/09/10	112	120	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0134-018.0	08/09/10	109	117	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0134-023.0	08/09/10	104	116	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0132-048.0 MS	08/09/10	100	119	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0132-048.0 MSD	08/09/10	109	127	104	99	Pass	Pass	Pass	Pass
CCS 20	08/09/10	100	120	101	99	Pass	Pass	Pass	Pass
VSTD 20	08/10/10	91	100	101	103	Pass	Pass	Pass	Pass
LCS 20	08/10/10	99	110	104	101	Pass	Pass	Pass	Pass
BLANK	08/10/10	104	108	104	101	Pass	Pass	Pass	Pass
CRHE-DPT0134-028.0	08/10/10	106	112	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0134-033.0 1:20	08/10/10	107	115	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0134-038.0 1:5000	08/10/10	105	114	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0134-043.0 1:50	08/10/10	110	119	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0134-048.0	08/10/10	107	115	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0135-010.0	08/10/10	108	116	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0135-018.0	08/10/10	110	115	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0135-028.0	08/10/10	103	113	102	99	Pass	Pass	Pass	Pass
CRHE-DPT0135-033.0	08/10/10	106	112	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0135-038.0	08/10/10	107	114	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0135-043.0	08/10/10	105	116	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0135-048.0	08/10/10	109	116	101	99	Pass	Pass	Pass	Pass
CRHE-DPT0135-038.0 1:20	08/10/10	109	120	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0136-033.0	08/10/10	108	116	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0136-038.0	08/10/10	110	119	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0136-043.0	08/10/10	101	111	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0136-048.0 1:20	08/10/10	109	120	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0136-063.0	08/10/10	107	125	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0137-033.0	08/10/10	100	110	98	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
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KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

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Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0137-038.0	08/10/10	108	120	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0137-043.0	08/10/10	112	124	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0137-048.0	08/10/10	110	122	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0131-063.0	08/10/10	112	124	100	99	Pass	Pass	Pass	Pass
CRHE-IDW178748-20100810 1:5	08/10/10	111	124	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0137-033.0 MS	08/10/10	103	126	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0137-033.0 MSD	08/10/10	103	128	99	95	Pass	Pass	Pass	Pass
CCS 20	08/10/10	105	129	100	96	Pass	Pass	Pass	Pass
VSTD 20	08/11/10	92	102	101	104	Pass	Pass	Pass	Pass
LCS	08/11/10	96	106	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0137-043.0 MS	08/11/10	103	117	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0137-043.0 MSD	08/11/10	103	120	99	99	Pass	Pass	Pass	Pass
BLANK	08/11/10	108	117	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0138-010.0	08/11/10	109	116	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0138-018.0	08/11/10	109	120	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0138-028.0	08/11/10	109	117	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0138-033.0	08/11/10	108	116	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0138-038.0	08/11/10	113	127	97	96	Pass	Pass	Pass	Pass
CRHE-DPT0138-043.0	08/11/10	111	122	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0138-048.0	08/11/10	110	120	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-010.0	08/11/10	98	108	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-018.0	08/11/10	112	121	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-033.0	08/11/10	86	94	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-038.0 1:10	08/11/10	113	125	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-043.0 1:100	08/11/10	115	128	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0139-048.0 1:200	08/11/10	116	128	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0139-028.0	08/11/10	114	124	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0140-010.0	08/11/10	97	108	94	97	Pass	Pass	Pass	Pass
CRHE-DPT0140-014.0	08/11/10	113	125	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0140-018.0	08/11/10	113	123	96	93	Pass	Pass	Pass	Pass
CRHE-DPT0140-023.0	08/11/10	112	123	95	93	Pass	Pass	Pass	Pass
CRHE-DPT0140-028.0	08/11/10	115	126	95	93	Pass	Pass	Pass	Pass
CRHE-DPT0140-033.0	08/11/10	118	123	95	95	Pass	Pass	Pass	Pass
CCS 20	08/11/10	100	110	97	91	Pass	Pass	Pass	Pass
VSTD 20	08/12/10	109	120	98	95	Pass	Pass	Pass	Pass
BLANK	08/12/10	109	102	101	95	Pass	Pass	Pass	Pass
CRHE-DPT0140-038.0	08/12/10	116	118	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0140-043.0	08/12/10	113	117	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0140-048.0	08/12/10	113	120	99	95	Pass	Pass	Pass	Pass
CRHE-IDW183401-20100811 1:5	08/12/10	104	99	103	92	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0140-038.0 MS	08/12/10	99	113	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0140-038.0 MSD	08/12/10	98	111	99	95	Pass	Pass	Pass	Pass
LCS	08/12/10	107	119	100	94	Pass	Pass	Pass	Pass
CCS 20	08/12/10	103	107	101	95	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data. 1,2-DCAD4 surrogate recovery drifted high during the day but would return to acceptable criteria for initial and daily CCS. Results were not affected as LCS and MS/MSD recoveries were in control even when 12DCAD4 recoveries were high.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0121-023.0 **Date of Analysis:** 8/4/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	97	98	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	107	106	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	111	111	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	127	129	1	Pass	Pass	Pass
Trichloroethene	60	127	20	105	106	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	106	107	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0122-010.0 **Date of Analysis:** 8/4/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	96	97	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	102	105	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	113	111	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	122	123	1	Pass	Pass	Pass
Trichloroethene	60	127	20	104	104	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	102	108	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0123-038.0 **Date of Analysis:** 8/4/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	95	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	107	105	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	111	109	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	125	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	101	99	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	103	99	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0126-010.0 **Date of Analysis:** 8/5/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	85	90	6	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	91	92	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	93	95	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	118	126	6	Pass	Pass	Pass
Trichloroethene	60	127	20	96	102	6	Pass	Pass	Pass
Tetrachloroethene	50	132	20	95	100	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0126-048.0 **Date of Analysis:** 8/6/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	91	7	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	109	102	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	111	103	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	124	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	104	99	5	Pass	Pass	Pass
Tetrachloroethene	50	132	20	103	98	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0132-048.0 **Date of Analysis:** 8/9/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	95	85	10	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	103	87	17	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	110	110	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	106	104	2	Pass	Pass	Pass
Trichloroethene	60	127	20	103	81	23	Pass	Pass	> RPDL
Tetrachloroethene	50	132	20	105	79	28	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0137-033.0 **Date of Analysis:** 8/10/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	100	92	8	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	103	102	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	109	104	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	114	111	2	Pass	Pass	Pass
Trichloroethene	60	127	20	106	106	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	104	107	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0137-043.0 **Date of Analysis:** 8/10/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	102	102	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	110	110	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	115	118	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	115	115	1	Pass	Pass	Pass
Trichloroethene	60	127	20	106	106	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	107	108	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0140-038.0 **Date of Analysis:** 8/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	89	86	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	98	95	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	98	93	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	108	98	9	Pass	Pass	Pass
Trichloroethene	60	127	20	103	101	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	105	103	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 8/2/2010
LCS 2 — 8/3/2010
LCS 3 — 8/4/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	52	to	150	87	103	114	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	89	115	124	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	94	123	125	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	107	132	132	Pass	> UCL	> UCL
Trichloroethene	68	to	119	98	110	110	Pass	Pass	Pass
Tetrachloroethene	58	to	127	109	105	114	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 8/5/2010
LCS 5 — 8/6/2010
LCS 6 — 8/9/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	52	to	150	103	104	89	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	113	117	96	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	114	117	99	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	126	129	121	Pass	> UCL	Pass
Trichloroethene	68	to	119	103	107	102	Pass	Pass	Pass
Tetrachloroethene	58	to	127	103	104	103	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 8/10/2010
LCS 8 — 8/11/2010
LCS 9 — 8/12/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	52	to	150	103	103	93	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	109	113	102	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	113	113	107	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	109	110	111	Pass	Pass	Pass
Trichloroethene	68	to	119	102	103	101	Pass	Pass	Pass
Tetrachloroethene	58	to	127	110	111	109	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

SampleI ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0116-010.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0116-018.0-20100802	8/2/10	Water	100	<21 I	<100	<100	<28 I	<26 I	<18 I
CRHE-DPT0116-028.0-20100802	8/2/10	Water	100	<21 I	<100	<100	<28 I	<26 I	<18 I
CRHE-DPT0116-033.0-20100802	8/2/10	Water	50	<11 I	<50	<50	<14 I	<13 I	<9 I
CRHE-DPT0116-038.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0116-043.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0116-048.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-010.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-018.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-028.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-033.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-038.0-20100802	8/3/10	Water	20	<6.4 I	<20	<20	<8.0 I	<6.6 I	<11 I
CRHE-DPT0117-043.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-048.0-20100802	8/3/10	Water	1	**4.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-010.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-018.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0
CRHE-DPT0118-028.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-033.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-038.0-20100802	8/3/10	Water	5	<1.6 I	< 5.0	< 5.0	<2.0 I	<1.7 I	<2.6 I
CRHE-DPT0118-043.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-048.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-010.0-20100803	8/3/10	Water	1	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-014.0-20100803	8/3/10	Water	1	**3.4**	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0
CRHE-DPT0119-018.0-20100803	8/3/10	Water	1	**4.9**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0119-023.0-20100803	8/3/10	Water	1	**12.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-028.0-20100803	8/3/10	Water	1	**37.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-033.0-20100803	8/3/10	Water	1,5	**180**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-038.0-20100803	8/3/10	Water	1	**8.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-043.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0119-048.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0120-010.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0120-014.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0120-018.0-20100803	8/3/10	Water	10	**400**	<10	<10	**170**	<3.3 I	<5.2 I
CRHE-DPT0120-023.0-20100803	8/3/10	Water	100	**4100**	<100	**230**	**9300**	<33 I	<52 I
CRHE-DPT0120-028.0-20100803	8/3/10	Water	2	**190**	<2.0	<2.0	**20**	< 1.0 I	<1.1 I
CRHE-DPT0120-033.0-20100803	8/3/10	Water	1	**1.5**	< 1.0	< 1.0	**3.9**	< 1.0	< 1.0
CRHE-DPT0120-038.0-20100803	8/3/10	Water	1	**1.8**	< 1.0	< 1.0	**12.1**	< 1.0	< 1.0
CRHE-DPT0120-043.0-20100803	8/3/10	Water	1	**3.0**	< 1.0	< 1.0	**14.0**	< 1.0	< 1.0
CRHE-DPT0120-048.0-20100803	8/3/10	Water	1	**5.6**	< 1.0	< 1.0	**29.0**	< 1.0	< 1.0
CRHE-DPT0121-010.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-014.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-018.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-023.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-028.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-033.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-038.0-20100804	8/4/10	Water	100	**4900**	<100	<100	**6400**	<33 I	<52 I
CRHE-DPT0121-043.0-20100804	8/4/10	Water	50	**1200**	<50	**66**	**4900**	**1700**	<26 I
CRHE-DPT0121-048.0-20100804	8/4/10	Water	1	**28.0**	< 1.0	< 1.0	**72.6**	**8.3**	< 1.0
CRHE-DPT0122-010.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0122-014.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-018.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-023.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-028.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-033.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-038.0-20100804	8/4/10	Water	100	**2900**	<100	<100	**6400**	**120**	<52 I
CRHE-DPT0122-043.0-20100804	8/4/10	Water	100	**1600**	<100	**110**	**6800**	**2700**	<52 I
CRHE-DPT0122-048.0-20100804	8/4/10	Water	1	**2.6**	< 1.0	< 1.0	**14.5**	**3.1**	< 1.0
CRHE-DPT0123-010.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0123-014.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-018.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-023.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-028.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-033.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-038.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-043.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-048.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0124-010.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0124-014.0-20100805	8/5/10	Water	1	**37.8**	< 1.0	**1.9**	**87.2**	< 1.0	< 1.0
CRHE-DPT0124-018.0-20100805	8/5/10	Water	1,100	**560**	< 1.0	**6.6**	**3600**	< 1.0	< 1.0
CRHE-DPT0124-023.0-20100805	8/5/10	Water	50	**3000**	<50	<50	**4500**	<17 I	<26 I
CRHE-DPT0124-028.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	**2.9**	< 1.0	< 1.0
CRHE-DPT0124-033.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0
CRHE-DPT0124-038.0-20100805	8/5/10	Water	5	**290**	<5.0	**8.5**	**360**	<1.7 I	<2.6 I
CRHE-DPT0124-043.0-20100805	8/5/10	Water	1	**1.2**	< 1.0	< 1.0	**2.2**	< 1.0	< 1.0
CRHE-DPT0124-048.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-010.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-018.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-028.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-033.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-038.0-20100805	8/5/10	Water	1	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-043.0-20100805	8/5/10	Water	20	**1700**	<20	**24**	**1300**	<6.6 I	<11 I
CRHE-DPT0125-048.0-20100805	8/5/10	Water	1	**35.8**	< 1.0	**1.7**	**7.0**	< 1.0	< 1.0
CRHE-DPT0126-010.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-018.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	**2.1**	< 1.0	< 1.0
CRHE-DPT0126-028.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-033.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-038.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0126-043.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-048.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0127-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0127-038.0-20100806	8/6/10	Water	1	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0127-043.0-20100806	8/6/10	Water	100	**320**	<100	**120**	**2700**	**2400**	<52 I
CRHE-DPT0127-048.0-20100806	8/6/10	Water	5	**15**	<5.0	**6.2**	**210**	**66**	<2.6 I
CRHE-DPT0128-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0128-038.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0128-043.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0128-048.0-20100806	8/6/10	Water	1	**3.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-010.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-018.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-028.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-038.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-043.0-20100806	8/6/10	Water	100	**3000**	<100	**110**	**5900**	<33 I	<52 I
CRHE-DPT0129-048.0-20100806	8/6/10	Water	10	**250**	<10	**22**	**790**	**110**	<5.2 I
CRHE-DPT0130-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	**1.4**	**1.4**	< 1.0	< 1.0
CRHE-DPT0130-038.0-20100806	8/6/10	Water	1,20	**770**	< 1.0	**10.5**	< 1.0	< 1.0	< 1.0
CRHE-DPT0130-043.0-20100806	8/9/10	Water	1,10	**170**	< 1.0	**3.6**	**1.6**	< 1.0	< 1.0
CRHE-DPT0130-048.0-20100806	8/9/10	Water	1	**3.6**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0131-033.0-20100809	8/9/10	Water	20	**1600**	<20	**65**	**940**	<6.6 I	<11 I
CRHE-DPT0131-038.0-20100809	8/9/10	Water	50	**760**	<50	**71**	**2200**	<17 I	<26 I
CRHE-DPT0131-043.0-20100809	8/9/10	Water	50	**320**	<50	**84**	**3000**	**220**	<26 I
CRHE-DPT0131-048.0-20100809	8/9/10	Water	100	**370**	<100	<100	**2200**	**630**	<52 I
CRHE-DPT0132-010.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0
CRHE-DPT0132-018.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-024.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-033.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0132-038.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-043.0-20100809	8/9/10	Water	1	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-048.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0133-010.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**
CRHE-DPT0133-014.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0133-018.0-20100809	8/9/10	Water	20	**400**	<20	**13 I**	**710**	<6.6 I	<11 I
CRHE-DPT0133-023.0-20100809	8/9/10	Water	500	**1700**	<500	**610**	**27000**	<170 I	<260 I
CRHE-DPT0133-028.0-20100809	8/9/10	Water	200	**910**	<200	**210**	**15000**	<66 I	<110 I
CRHE-DPT0133-033.0-20100809	8/9/10	Water	20	**580**	<20	**15 I**	**1100**	<6.6 I	<11 I
CRHE-DPT0133-038.0-20100809	8/9/10	Water	50	**790**	<50	**38 I**	**2800**	**50**	<26 I
CRHE-DPT0133-043.0-20100809	8/9/10	Water	1	**4.0**	< 1.0	< 1.0	**12.9**	< 1.0	< 1.0
CRHE-DPT0133-048.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	**3.7**	< 1.0	< 1.0
CRHE-DPT0134-010.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-014.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-018.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-023.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-028.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-033.0-20100810	8/10/10	Water	20	**200**	<20	**73**	**500**	**94**	<11 I
CRHE-DPT0134-038.0-20100810	8/10/10	Water	5000	**4200 I**	<5000	<5000	**39000**	**100000**	<2600 I
CRHE-DPT0134-043.0-20100810	8/10/10	Water	50	**200**	<50	**43 I**	**1500**	**1500**	<26 I
CRHE-DPT0134-048.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	**12.5**	**46.4**	< 1.0
CRHE-DPT0135-010.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-018.0-20100810	8/10/10	Water	1	**7.8**	< 1.0	< 1.0	**3.0**	< 1.0	< 1.0
CRHE-DPT0135-028.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-033.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-038.0-20100810	8/10/10	Water	1,20	**2500 L**	< 1.0	**73.6**	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-043.0-20100810	8/10/10	Water	1	**72.4**	< 1.0	**3.5**	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-048.0-20100810	8/10/10	Water	1	**3.7**	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0
CRHE-DPT0136-033.0-20100810	8/10/10	Water	1	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0136-038.0-20100810	8/10/10	Water	1	**5.8**	< 1.0	< 1.0	**1.8**	< 1.0	< 1.0
CRHE-DPT0136-043.0-20100810	8/10/10	Water	1	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0136-048.0-20100810	8/10/10	Water	20	**78**	<20	**31**	**930**	**110**	<11 I
CRHE-DPT0136-063.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-033.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-038.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-043.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-048.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0131-063.0-20100810	8/10/10	Water	1	**2.5**	< 1.0	< 1.0	**14.6**	**1.9**	< 1.0
CRHE-DPT0138-010.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-018.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-028.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-033.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-038.0-20100811	8/11/10	Water	1	**4.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-043.0-20100811	8/11/10	Water	1	**41.8**	< 1.0	< 1.0	**2.4**	< 1.0	< 1.0
CRHE-DPT0138-048.0-20100811	8/11/10	Water	1	**9.2**	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0
CRHE-DPT0139-010.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-018.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-028.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-033.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-038.0-20100811	8/11/10	Water	10	**850**	<10	**34**	**600**	<3.3 I	<5.2 I
CRHE-DPT0139-043.0-20100811	8/11/10	Water	100	**1700**	<100	**190**	**7200**	**500**	<52 I
CRHE-DPT0139-048.0-20100811	8/11/10	Water	200	**910**	<200	**180 I**	**6100**	**3400**	<110 I
CRHE-DPT0140-010.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-014.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-018.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-023.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-028.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-033.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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CRHE-DPT0140-038.0-20100811	8/12/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-043.0-20100811	8/12/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-048.0-20100811	8/12/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW178747-20100806	8/9/10	Water	1	**44**	< 1.0	**1.2**	**140 L**	**6.3**	< 1.0
CRHE-IDW178748-20100810	8/10/10	Water	5	**23**	<5.0	**3.3 I**	**200**	**10**	<2.6 I
CRHE-IDW183401-20100811	8/12/10	Water	5	**7.5**	<5.0	**1.9 I**	**100**	**66**	<2.6 I

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1603

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC

SAMPLERS: GeoSyntec

CONTACT PERSON: Jan Burton / Joy McKinnon

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
DPT0116-010.0-20100702		0915		✓	8/2/10	0915		W	2	✓	
016.0		0930				1040					
028.0		0950				↓					
033.0		1010									
038.0		1030									
043.0		1655				1125					
048.0	1115	~~1055~~				↓					
DPT0117-010.0		1145				1205					
018.0		1158				↓					
028.0		1300				1440					
033.0		1320				↓					
038.0		1345									
043.0		1408									
048.0		1430				↓					
DPT0118-010.0		1505				1600					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			8/2/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K 103

CLIENT NAME: GeosynTec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS:

CONTACT PERSON: Jen Barfus

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHR3											
DPT0148-018.0-20100802		1520			8/2/10	1600					
-028.0		1537				↓					
033.0		1553				1710					
038.0		1617									
043.0		1637									
048.0		1700									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		[signature]	8/2/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K03

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC

SAMPLERS

CONTACT PERSON: ~~Jan Barfus~~

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0119-010.0-20100803		0830		✓	8/3/10	0910		W	2	✓	
014.0		0843				↓					
018.0		0857									
023.0		0915				1005					
028.0		0935				↓					
033.0		0953									
038.0		1013				1110					
043.0		1035				↓					
048.0		1100									
OPT0120-010.0		1253				1325					
014.0		1305				↓					
018.0		1320									
023.0		1335				1420					
028.0		1357									
033.0		1415				↓					

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
	8/3/10			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			8/3/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K 13

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CHRE KSC

SAMPLERS:

CONTACT PERSON: Joey

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
MOTO120-035.0-20100803		1437		✓	8/3/10	1030					
-043.0		1500				↓					
-048.0		1523				↓					
MOTO121-010.0		1608				1715					
014.0		1625				↓					
018.0		1640				↓					
023.0		1658				↓					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/3/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K63

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS

CONTACT PERSON: Joey

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
DPT0121-028.0-20100804		0757		✓	8/4/10	0830		W	2	✓	
033.0		0817				↓					
038.0		0837				0930					
043.0		0857				↓					
048.0		0920									
DPT0122-010.0		1005				1035					
014.0		1020				↓					
018.0		1030									
023.0		1047				1130					
028.0		1105				↓					
033.0		1123									
038.0		1140				1235					
043.0		1205				↓					
048.0		1228									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	8/4/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1483

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS:

CONTACT PERSON: Joey

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0123-010.0-20100804		1570		✓	8/4/10	1555					
014.0		1523				↓					
018.0		1545									
023.0		1605				1715					
028.0		1623				↓					
033.0		1640									
038.0		1700									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 8/4/10	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/4/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1453

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS

CONTACT PERSON: JBey

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0123-043.0-20100805		0745			8/5/10	0845		W	2	✓	
048.0		0807				↓					
OPT0124-010.0		0910				1000					
-014.0		0935				↓					
018.0		0947									
023.0		1000				1040					
028.0		1017				↓					
033.0		1033									
038.0		1050				~~102~~ 1125					
043.0		1105				↓					
048.0		1111									
OPT025-010.0		1205				1205					
018.0		1255				1340					
023.0		1331				↓					
028.0		1347									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/5/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (919) 678-0030

MOBILE UNIT # 433

CLIENT NAME: Evergreen Tech

PROJECT NAME & ADDRESS: CHRE

SAMPLER8:

CONTACT PERSON: JDay

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0125-0350-20180705		1400		✓	8/8/18	1455		W	2	✓	
043.0		1422				J					
048.0		1445				J					
OPT0126-010.0		1540				1620					
-018.0		1555				J					
-028.0		1610				J					
-038.0		1630				1700					
038.0		1645				J					
043.0		1715				1720					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # 1CB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS: ~~CHRE~~

CONTACT PERSON: Tony

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CHRE~~ ~~Blank~~											
OPT0126-048.0-20100506		0738		✓	5/6/10	0755		W	2	✓	
OPT0127-033.0	0825	~~0845~~ Bad				0900					
038.0		~~0845~~ 0845				↓					
043.0		0905				0930					
048.0		0925				↓					
OPT0128-033.0		1007				1040					
038.0		1030				↓					
043.0		1050				1152					
048.0		1110				↓					
OPT0129-010.0		1155				1215					
018.0		1210				↓					
028.0		1225				1255					
033.0		1246				↓					
038.0		1300				1415					
043.0		~~1345~~ 1320				↓		↓	↓	✓	

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			5/6/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
GeoSyntec	CH2E

SAMPLERS

CONTACT PERSON: Joey

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CH2E CRANE~~											
DPT0129-048.0-20100806		~~1310~~ 1510		✓	8/6/10	1535		W	2	✓	
DPT0130 ~~033.0~~ 033.0		1542				1600					
FDW178747		1530				↓					
DPT0130-038.0		1605				~~1630~~ 1640					
043.0		1630				↓					
048.0		1650				1655					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/6/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1643

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E IGSC

SAMPLERS: CH2E MW

CONTACT PERSON: Jan Barnes

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CH2E~~											
OPTO131-033.0-20100809	8/9	0835		✓	8/9/10	0840		W	2	✓	
038.0		0857				0905					
043.0		0916				0950					
048.0		0944				↓					
OPTO132-010.0		1021				1050					
018.0		1030				↓					
024.0		1042				↓					
033.0		~~1115~~ 1058				1120					
038.0		1115				↓					
043.0		1135				1205					
048.0		1150				↓					
OPTO133-010.0		1352				1420					
014.0		1401				↓					
018.0		1418									
023.0		1422				1500					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		[signature]	8/9/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHAE LSC

SAMPLERS:

CONTACT PERSON: Jan Boras

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID / NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CHAE~~ ~~MW~~											
OBTO13-028.0-20100809				✓	8/9/10	1500		GW	2	✓	
033.2		1449				↓					
038.0		1507				055					
043.0		1526									
048.0		1543									
OBTO14-010.0		1653				1715					
018.0		1701				↓					
018.0		1710									
023.0		1722				1730					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			8/9/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # 1463

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS: Chris Kow

CONTACT PERSON: Jan Barfus

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0134-028.0-20100810		0743		✓	8/10/10	0805		W	2	✓	
033.0		0757				↓					
038.0		0813				0840					
043.0		0831				↓					
048.0		0850				0945					
DPT0135-010.0		0928				↓					
015.0		0957				1010					
028.0		1000				↓					
033.0		1013				1045					
038.0		1039				↓					
043.0		1052				1135					
048.0		1112				↓					
DPT0136-033.0		1146				1205					
-038.0		1200				↓					
-043.0		1310				1405					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/10/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1483

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE

SAMPLERS

CONTACT PERSON: Jan Burgess

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRTE											
DPT0136-041.0-20	100810	1330		✓	1405			W	2	✓	
063.0		1336			↓						
DPT0137-033.0		1456			1520						
-038.0		1516			↓						
043.0		1559			1620						
048.0		1605			↓						
DPT0131-063.0		1630			1640						
EDW178748		1620			1650						

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRITE
SAMPLERS	**CONTACT PERSON**
	Jan Barfus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRITE											
DPT0138-010.0-20100811	~~0801~~	0801		✓	8/11/10	0820		W	2	✓	
018.0	~~0812~~	0812				↓					
028.0		0830				0850					
033.0		0846				↓					
038.0		0905				0955					
043.0		0925				↓					
048.0		0946				↓					
DPT0139-010.0		1024				1055					
018.0		1034				↓					
028.0		1046				↓					
033.0		1100				1125					
038.0		1118				↓					
043.0		1138				1210					
048.0		1202				↓					
DPT0140-010.0		1416				1430					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
	8/11/10			
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/11/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 163

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE

SAMPLERS:

CONTACT PERSON: Jan Barfus

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE											
DPT0140-014.0-20100811		~~1427~~ 1427	✓		8/11/10	1430		W	2	✓	
018.0		1435				1450					
023.0		1443				″					
028.0		1456				1515					
033.0		1508				″					
038.0		1522				1600					
043.0		1534				″					
048.0		1550				″					
IDW 183401		1630				1640					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/11/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

October 21, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-184

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from October 11 to 14, and 18, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
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PROJECT NARRATIVE

Project Scope

From October 11 to 14, and 18, 2010, a total of 107 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Changes for sample ID CRHE-DPT0145-043.0-20101012 reported:
   t-1,2-dichloroethene <1.0 changed to 1.6ug/L.
   c-1,2-dichloroethene 1.6 changed to <1.0ug/L.

3. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data qualifier "I". Some results were changed from the Field Report to the Final Report to reflect this requirement.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	10/11/10	107	111	100	95	Pass	Pass	Pass	Pass
LCS	10/11/10	105	110	101	96	Pass	Pass	Pass	Pass
BLANK	10/11/10	112	112	100	91	Pass	Pass	Pass	Pass
CRHE-DPT0141-010.0	10/11/10	111	108	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0141-018.0	10/11/10	113	110	100	87	Pass	Pass	Pass	Pass
CRHE-DPT0141-028.0	10/11/10	114	111	101	88	Pass	Pass	Pass	Pass
CRHE-DPT0141-033.0	10/11/10	114	108	99	89	Pass	Pass	Pass	Pass
CRHE-DPT0141-038.0	10/11/10	112	116	100	86	Pass	Pass	Pass	Pass
CRHE-DPT0141-043.0	10/11/10	117	114	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0141-048.0	10/11/10	116	116	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0142-010.0	10/11/10	117	117	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0142-018.0	10/11/10	117	120	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0142-028.0	10/11/10	118	118	98	89	Pass	Pass	Pass	Pass
CRHE-DPT0142-033.0	10/11/10	115	120	98	90	Pass	Pass	Pass	Pass
CRHE-DPT0142-038.0	10/11/10	118	122	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0142-043.0	10/11/10	119	123	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0142-048.0	10/11/10	121	120	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0143-028.0	10/11/10	111	114	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0143-033.0	10/11/10	113	112	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0143-038.0	10/11/10	114	116	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0143-043.0	10/11/10	117	118	99	86	Pass	Pass	Pass	Pass
CRHE-DPT0143-048.0	10/11/10	117	120	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0144-010.0	10/11/10	116	114	99	89	Pass	Pass	Pass	Pass
CRHE-DPT0141-010.0 MS	10/11/10	110	124	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0141-010.0 MSD	10/11/10	111	108	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0143-028.0 MS	10/11/10	111	118	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0143-028.0 MSD	10/11/10	109	115	101	93	Pass	Pass	Pass	Pass
VSTD 20	10/11/10	110	119	99	94	Pass	Pass	Pass	Pass
VSTD 20	10/12/10	105	112	100	94	Pass	Pass	Pass	Pass
LCS	10/12/10	110	111	100	95	Pass	Pass	Pass	Pass
BLANK	10/12/10	114	110	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0144-018.0	10/12/10	113	107	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0144-028.0	10/12/10	113	105	101	92	Pass	Pass	Pass	Pass
CRHE-DPT0144-033.0	10/12/10	108	104	102	91	Pass	Pass	Pass	Pass
CRHE-DPT0144-038.0	10/12/10	111	107	100	91	Pass	Pass	Pass	Pass
CRHE-DPT0144-043.0	10/12/10	111	106	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0144-048.0	10/12/10	110	104	102	90	Pass	Pass	Pass	Pass
CRHE-DPT0144-018.0 MS	10/12/10	107	112	101	98	Pass	Pass	Pass	Pass
CRHE-DPT0144-018.0 MSD	10/12/10	106	109	102	94	Pass	Pass	Pass	Pass
CRHE-DPT0144-053.0	10/12/10	117	110	101	91	Pass	Pass	Pass	Pass
CRHE-DPT0144-063.0	10/12/10	116	112	100	89	Pass	Pass	Pass	Pass
CRHE-DPT0145-010.0	10/12/10	116	112	101	89	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0145-018.0	10/12/10	114	108	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0145-028.0	10/12/10	117	110	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0144-063.0 MS	10/12/10	112	123	99	92	Pass	Pass	Pass	Pass
CRHE-DPT0144-063.0 MSD	10/12/10	114	122	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0145-033.0	10/12/10	118	120	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0145-038.0	10/12/10	118	116	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0145-043.0	10/12/10	117	120	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0145-048.0	10/12/10	120	121	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0145-053.0	10/12/10	121	121	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0145-063.0	10/12/10	120	123	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0145-048.0 1:5	10/12/10	119	121	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0139-053.0 1:50	10/12/10	118	120	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0139-063.0	10/12/10	120	116	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0146-028.0	10/12/10	117	118	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0146-033.0	10/12/10	119	119	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0146-038.0	10/12/10	116	117	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0146-043.0 1:50	10/12/10	118	117	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0146-048.0	10/12/10	120	114	98	87	Pass	Pass	Pass	Pass
VSTD 20	10/12/10	111	116	98	93	Pass	Pass	Pass	Pass
VSTD 20	10/13/10	109	107	99	98	Pass	Pass	Pass	Pass
LCS	10/13/10	107	112	100	96	Pass	Pass	Pass	Pass
BLANK	10/13/10	113	109	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0139-063.0 MS	10/13/10	109	106	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-063.0 MSD	10/13/10	107	113	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0147-028.0	10/13/10	112	111	100	93	Pass	Pass	Pass	Pass
CRHE-DPT0147-033.0	10/13/10	115	111	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0147-038.0	10/13/10	116	111	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0147-043.0	10/13/10	116	111	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0147-048.0	10/13/10	114	110	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0147-028.0 MS	10/13/10	108	110	102	94	Pass	Pass	Pass	Pass
CRHE-DPT0147-028.0 MSD	10/13/10	109	115	100	93	Pass	Pass	Pass	Pass
CRHE-DPT0148-010.0	10/13/10	114	111	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-018.0	10/13/10	117	111	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-028.0	10/13/10	118	114	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-033.0	10/13/10	119	114	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-038.0	10/13/10	119	116	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-043.0	10/13/10	118	114	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-048.0 1:20	10/13/10	118	121	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0148-043.0 1:10	10/13/10	117	118	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0149-010.0	10/13/10	122	121	97	89	> UCL	Pass	Pass	Pass
CRHE-DPT0149-018.0	10/13/10	120	120	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0149-028.0	10/13/10	120	121	95	86	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0149-033.0	10/13/10	119	122	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0149-038.0	10/13/10	120	122	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0149-043.0	10/13/10	122	124	95	86	> UCL	Pass	Pass	Pass
CRHE-DPT0149-033.0 1:100	10/13/10	124	124	94	88	> UCL	Pass	Pass	Pass
CRHE-DPT0149-043.0 1:10	10/13/10	126	125	97	87	> UCL	Pass	Pass	Pass
CRHE-DPT0149-048.0	10/13/10	117	121	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0150-028.0	10/13/10	118	120	96	88	Pass	Pass	Pass	Pass
VSTD 20	10/13/10	114	124	98	93	Pass	Pass	Pass	Pass
VSTD 20	10/14/10	105	109	100	96	Pass	Pass	Pass	Pass
LCS	10/14/10	107	112	102	98	Pass	Pass	Pass	Pass
BLANK	10/14/10	110	111	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0149-038 1:100	10/14/10	115	110	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0149-048.0 1:5	10/14/10	113	115	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0150-033.0	10/14/10	111	109	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0150-038.0	10/14/10	114	110	101	89	Pass	Pass	Pass	Pass
CRHE-DPT0150-043.0	10/14/10	114	109	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0150-048.0	10/14/10	111	109	100	91	Pass	Pass	Pass	Pass
CRHE-DPT0150-053.0	10/14/10	112	107	102	88	Pass	Pass	Pass	Pass
CRHE-DPT0150-063.0	10/14/10	115	112	101	91	Pass	Pass	Pass	Pass
CRHE-DPT0150-048.0 MS	10/14/10	107	113	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0150-048.0 MSD	10/14/10	109	118	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0151-028.0	10/14/10	114	112	102	92	Pass	Pass	Pass	Pass
CRHE-DPT0151-033.0	10/14/10	116	116	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0151-038.0 1:5	10/14/10	114	110	99	87	Pass	Pass	Pass	Pass
CRHE-DPT0151-043.0	10/14/10	114	117	99	87	Pass	Pass	Pass	Pass
CRHE-DPT0151-048.0	10/14/10	111	104	101	89	Pass	Pass	Pass	Pass
CRHE-DPT0151-053.0	10/14/10	118	118	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0151-063.0	10/14/10	117	112	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0152-010.0	10/14/10	113	113	99	87	Pass	Pass	Pass	Pass
CRHE-DPT0152-018.0	10/14/10	117	116	99	86	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
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KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0152-028.0	10/14/10	114	112	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0152-033.0	10/14/10	120	116	98	84	Pass	Pass	Pass	Pass
CRHE-DPT0152-038.0	10/14/10	116	115	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0152-043.0 1:20	10/14/10	118	116	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0152-048.0	10/14/10	119	118	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0152-043.0 1:5	10/14/10	118	120	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0153-028.0	10/14/10	118	123	97	89	Pass	Pass	Pass	Pass
VSTD 20	10/14/10	113	124	97	90	Pass	Pass	Pass	Pass
VSTD 20	10/18/10	105	110	98	94	Pass	Pass	Pass	Pass
BLANK	10/18/10	116	111	98	89	Pass	Pass	Pass	Pass
CRHE-DPT0153-033.0	10/18/10	113	107	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0153-038.0 1:10	10/18/10	114	110	98	90	Pass	Pass	Pass	Pass
CRHE-DPT0153-043.0	10/18/10	115	108	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0153-048.0 1:20	10/18/10	112	112	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0153-053.0	10/18/10	116	110	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0153-063.0	10/18/10	114	112	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0154-010.0	10/18/10	113	110	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0154-018.0	10/18/10	114	112	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0154-028.0	10/18/10	117	114	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0154-033.0	10/18/10	116	113	98	85	Pass	Pass	Pass	Pass
CRHE-DPT0154-038.0	10/18/10	116	112	99	86	Pass	Pass	Pass	Pass
CRHE-DPT0154-043.0	10/18/10	119	112	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0154-048.0	10/18/10	121	115	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0155-010.0	10/18/10	114	108	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0155-018.0	10/18/10	117	111	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0155-028.0	10/18/10	119	115	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0155-033.0	10/18/10	114	112	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0155-038.0	10/18/10	118	114	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0155-043.0	10/18/10	119	114	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0155-048.0	10/18/10	115	116	98	86	Pass	Pass	Pass	Pass
CRHE-IDW144955-20101015	10/18/10	115	117	96	85	Pass	Pass	Pass	Pass
CRHE-IDW144956-20101015 1:5	10/18/10	116	115	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0155-038.0 1:5	10/18/10	117	112	98	85	Pass	Pass	Pass	Pass
CRHE-DPT0154-048.0 MS	10/18/10	110	116	97	89	Pass	Pass	Pass	Pass
CRHE-DPT0154-048.0 MSD	10/18/10	113	118	97	88	Pass	Pass	Pass	Pass
LCS	10/18/10	111	117	97	96	Pass	Pass	Pass	Pass
CCS	10/18/10	113	119	97	92	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-184
Onsite Dates: 10/11/10-10/14/10,10/18/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0141-010.0 **Date of Analysis:** 10/11/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	101	96	5	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	118	115	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	118	106	11	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	103	102	1	Pass	Pass	Pass
Trichloroethene	60	127	20	95	96	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	104	104	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0143-028.0 **Date of Analysis:** 10/11/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	103	104	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	121	123	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	112	112	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	104	104	0	Pass	Pass	Pass
Trichloroethene	60	127	20	96	99	3	Pass	Pass	Pass
Tetrachloroethene	50	132	20	109	111	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0144-018.0 **Date of Analysis:** 10/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	110	103	7	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	125	121	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	119	103	14	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	106	104	2	Pass	Pass	Pass
Trichloroethene	60	127	20	100	99	1	Pass	Pass	Pass
Tetrachloroethene	50	132	20	114	114	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0144-063.0 **Date of Analysis:** 10/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	105	102	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	121	122	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	102	100	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	83	89	7	Pass	Pass	Pass
Trichloroethene	60	127	20	102	102	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	112	113	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-184
Onsite Dates: 10/11/10-10/14/10,10/18/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0139-063.0 **Date of Analysis:** 10/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	112	104	7	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	134	124	8	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	106	101	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	112	104	8	Pass	Pass	Pass
Trichloroethene	60	127	20	103	97	6	Pass	Pass	Pass
Tetrachloroethene	50	132	20	115	110	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0147-028.0 **Date of Analysis:** 10/13/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	103	105	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	125	129	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	101	102	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	103	108	4	Pass	Pass	Pass
Trichloroethene	60	127	20	97	101	4	Pass	Pass	Pass
Tetrachloroethene	50	132	20	111	113	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0150-048.0 **Date of Analysis:** 10/14/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	107	104	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	134	126	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	130	101	25	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	62	141	20	107	106	1	Pass	Pass	Pass
Trichloroethene	60	127	20	101	100	1	Pass	Pass	Pass
Tetrachloroethene	50	132	20	119	111	7	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0154-048.0 **Date of Analysis:** 10/18/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	99	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	108	122	13	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	104	105	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	99	102	3	Pass	Pass	Pass
Trichloroethene	60	127	20	94	95	1	Pass	Pass	Pass
Tetrachloroethene	50	132	20	106	108	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-184
Onsite Dates: 10/11/10-10/14/10,10/18/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1, LCS 2, LCS 3 **Date of Analysis:** 10/11/2010, 10/12/2010, 10/13/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	52	to	150	101	91	97	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	133	121	127	> UCL	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	118	105	106	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	113	105	109	Pass	Pass	Pass
Trichloroethene	68	to	119	102	95	100	Pass	Pass	Pass
Tetrachloroethene	58	to	127	117	107	113	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4, LCS 5 **Date of Analysis:** 10/14/2010, 10/18/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5		LCS#4	LCS#5	
Vinyl Chloride	52	to	150	100	97		Pass	Pass	
1,1-Dichloroethene	58	to	132	116	122		Pass	Pass	
Trans-1,2-Dichloroethene	54	to	140	105	106		Pass	Pass	
Cis-1,2-Dichloroethene	67	to	126	108	99		Pass	Pass	
Trichloroethene	68	to	119	101	94		Pass	Pass	
Tetrachloroethene	58	to	127	115	107		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0141-010.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-018.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-028.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-033.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-038.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-043.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-048.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-010.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-018.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-028.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-033.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-038.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-043.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-048.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-028.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0143-033.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-038.0-20101011	10/11/10	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-043.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-048.0-20101011	10/11/10	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-010.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-018.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-028.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-033.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-038.0-20101012	10/12/10	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-043.0-20101012	10/12/10	Water	1	**30.4**	<1.0	**1.4**	<1.0	<1.0	<1.0
CRHE-DPT0144-048.0-20101012	10/12/10	Water	1	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-053.0-20101012	10/12/10	Water	1	**2.0**	<1.0	<1.0	**3.4**	<1.0	<1.0
CRHE-DPT0144-063.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-010.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-018.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0145-028.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-033.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-038.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-043.0-20101012	10/12/10	Water	1	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0
CRHE-DPT0145-048.0-20101012	10/12/10	Water	1, 5	**150**	<1.0	**3.9**	**1.6**	<1.0	<1.0
CRHE-DPT0145-053.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-063.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0139-053.0-20101012	10/12/10	Water	50	**350**	<15 I	**88**	**1600**	**1200**	<26 I
CRHE-DPT0139-063.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0146-028.0-20101012	10/12/10	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0146-033.0-20101012	10/12/10	Water	1	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0146-038.0-20101012	10/12/10	Water	1	**18.4**	<1.0	**4.3**	**7.1**	<1.0	<1.0
CRHE-DPT0146-043.0-20101012	10/12/10	Water	50	**330**	<15 I	**100**	**1900**	**2500**	<26 I
CRHE-DPT0146-048.0-20101012	10/12/10	Water	1	**40.4**	<1.0	**3.0**	**55.4**	**1.8**	<1.0
CRHE-DPT0147-028.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

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KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0147-033.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0147-038.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0147-043.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0147-048.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-010.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-018.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-028.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-033.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-038.0-20101013	10/13/10	Water	1	<1.0	<1.0	**2.9**	<1.0	<1.0	<1.0
CRHE-DPT0148-043.0-20101013	10/13/10	Water	1, 10	**470**	<1.0	**7.6**	**8.6**	<1.0	<1.0
CRHE-DPT0148-048.0-20101013	10/13/10	Water	20	**720**	<6.0 I	**11 I**	**260**	<6.6 I	<10 I
CRHE-DPT0149-010.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0149-018.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0149-028.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0149-033.0-20101013	10/13/10	Water	1	**100**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0149-038.0-20101013	10/13/10	Water	1, 100	**2300**	<1.0	**10.9**	**3.8**	<1.0	<1.0
CRHE-DPT0149-043.0-20101013	10/13/10	Water	1, 10	**310**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0149-048.0-20101013	10/13/10	Water	1, 5	**130**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0150-028.0-20101013	10/13/10	Water	1	**2.9**	<1.0	<1.0	**7.9**	<1.0	<1.0
CRHE-DPT0150-033.0-20101014	10/14/10	Water	1	**11.3**	<1.0	<1.0	**20.1**	<1.0	<1.0
CRHE-DPT0150-038.0-20101014	10/14/10	Water	1	**15.2**	<1.0	<1.0	**14.4**	<1.0	<1.0
CRHE-DPT0150-043.0-20101014	10/14/10	Water	1	**22.6**	<1.0	<1.0	**21.5**	<1.0	<1.0
CRHE-DPT0150-048.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0150-053.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0150-063.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-028.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-033.0-20101014	10/14/10	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-038.0-20101014	10/14/10	Water	5	**280**	<1.5 I	**11**	**220**	**5.2**	<2.6 I
CRHE-DPT0151-043.0-20101014	10/14/10	Water	1	**30.4**	<1.0	<1.0	**6.7**	<1.0	<1.0
CRHE-DPT0151-048.0-20101014	10/14/10	Water	1	**37.3**	<1.0	**1.6**	**7.2**	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0151-053.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-063.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-010.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-018.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-028.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-033.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-038.0-20101014	10/14/10	Water	1	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-043.0-20101014	10/14/10	Water	5	**360**	<1.5 I	**17**	**300**	**4.0 I**	<2.6 I
CRHE-DPT0152-048.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0153-028.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0153-033.0-20101015	10/18/10	Water	1	**42.4**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0153-038.0-20101015	10/18/10	Water	10	**460**	<3.0 I	**8.6 I**	**86**	<3.3 I	<5.2 I
CRHE-DPT0153-043.0-20101015	10/18/10	Water	1	**28.5**	<1.0	**1.4**	**48.4**	**1.2**	<1.0
CRHE-DPT0153-048.0-20101015	10/18/10	Water	20	**170**	<6.0 I	**16 I**	**550**	<6.6 I	<10 I
CRHE-DPT0153-053.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0153-063.0-20101015	10/18/10	Water	1	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-010.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-018.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-028.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-033.0-20101015	10/18/10	Water	1	**1.2**	<1.0	<1.0	**6.5**	<1.0	<1.0
CRHE-DPT0154-038.0-20101015	10/18/10	Water	1	**3.3**	<1.0	<1.0	**6.4**	<1.0	<1.0
CRHE-DPT0154-043.0-20101015	10/18/10	Water	1	**21.6**	<1.0	<1.0	**2.7**	<1.0	<1.0
CRHE-DPT0154-048.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-010.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-018.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-028.0-20101015	10/18/10	Water	1	**9.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-033.0-20101015	10/18/10	Water	1	**42.3**	<1.0	<1.0	**2.5**	<1.0	<1.0
CRHE-DPT0155-038.0-20101015	10/18/10	Water	1,5	**110**	<1.0	<1.0	**12.0**	<1.0	<1.0
CRHE-DPT0155-043.0-20101015	10/18/10	Water	1	**79.4**	<1.0	<1.0	**1.4**	<1.0	<1.0
CRHE-DPT0155-048.0-20101015	10/18/10	Water	1	**12.0**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE IDW

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-IDW144955-20101015	10/18/10	Water	1	**7.7**	<1.0	<1.0	**23.2**	**6.2**	<1.0
CRHE-IDW144956-20101015	10/18/10	Water	5	**2.4 I**	<1.5 I	<1.9 I	**2.6 I**	<1.6 I	<2.5 I

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: ~~CHRE~~ CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 * 10110											
DW-144957	10/08/10	1700			10/11/10	0820		GW	2	✓	
DPT0141-010.0	10/11/10	0903				1100					
018.0		0917									
028.0		0932									
033.0		0953									
038.0		1014									
043.0		1032									
048.0		1055									
DPT0142 010.0		1134				1152					
018.0		1148				1152					
028.0		1303				1350					
033.0		1323									
038.0		1341									
043.0		1401				1430					
048.0		1423				1430					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/11/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3*101110										IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	
DPT 0143-028.0	10/11/10	1535			10/11/10	1535		GW	2		
033.0		1552				1555					
038.0		1609				1635					
043.0		1629				1635					
048.0		1657				1659					
DPT 0144-010.0		1714				1720					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			10/11/10
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3+101L10											
DT0144-018.0	10/14/10	0740			10/14/10	0748		GW	2	✓	
028.0		0757				0820					
033.0		0826				0840					
038.0		0847				0850					
043.0		0910				0920					
048.0		0934				0945					
053.0		1003				1035					
063.0		1032				1035					
DT0145-090.0		1119				1120					
015.0		1152				1145					
028.0		1145				1145					
033.0		1201				1205					
038.0		1305				1323					
043.0		1323				1323					
048.0		1342				1406					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/14/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3 * 101210	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0145-053.0	10/14/10	1406			10/14/10	1406		GW	2	✓	
" 063.0		1437				1445					
DPT0139-053.0		1518				1520					
" 063.0		1538				1545					
DPT0146-043.0		1617				1618					
033.0		1631				1636					
038.0		1647				1655					
043.0		1703				1710					
048.0		1732				1730					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/14/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K83

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSGFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER K83 K101310	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0147-028.0	10/13/10	0853			10/13/10	0852		GW	2	✓	
033.0		0909				0912					
038.0		0926				0928					
043.0		0945				0945					
048.0		1004				1008					
DPT0148-010.0		1046				1100					
018.0		1100				1100					
028.0		1114				1135					
033.0		1130				1131					
038.0		1153				1200					
043.0		1214				1236					
048.0		1232				1236					
DPT0149-010.0		1428				1440					
018.0		1438				1470					
028.0		1450				1510					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/13/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTF KSCFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 #10310											
DPT 0149-033.0	10/13/10	1505			10/13/10	1520		GW	2	✓	
038.0	↓	1521			↓	1540		↓	↓	↓	
043.0		1538				1540					
048.0		1559				1650					
DPT 0150-028.0		1640				1650					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/13/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 H014/0											
DPT 0150-033.0	10/14/10	0740			10/14/10	0800		GW	2	✓	
038.0		0758				0800					
043.0		0819				0845					
048.0		0841				0845					
053.0		0913				0945					
063.0		0936				0945					
DPT 0151-028.0		1032				1100					
033.0		1055				1100					
038.0		1117				1145					
043.0		1139				1145					
048.0		1200				1305					
053.0		1257				1305					
063.0		1324				1342					
DPT 0152 10.0		1422				1440					
11 018.0		1437				1440					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/14/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CAPE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 10/14/10											
DPT0152-028.0	10/14/10	1448			10/14/10	1520		GW	2	✓	
033.0		1511				1520					
038.0		1542				1605					
043.0		1601				1605					
048.0		1622				1659					
DPT0153-028.0		1710				1730					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/14/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # HB3

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE hSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0153 -033.0	10/15	08:20						GW		✓	
-038.0		08:42									
-043.0		09:05									
-048.0		09:26									
-053.0		09:48									
-063.0		10:14									
DPT0154 - 010.0		10:52									
-018.0		11:02									
-028.0		11:16									
-033.0		11:30									
-038.0		11:45									
-043.0		12:07									
-048.0		12:27									
DPT0155 - 010.0		13:46									
-018.0		13:57									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

CoC hB Lab Office

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
FAX (352) 472-5832

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # hB3

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE hsc, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT / SAMPLE PRE FIX
DPT0155-028.0	10/15	14:10						GW		✓				
-033.0		14:34												
-038.0		14:50												
-043.0		15:11												
-048.0		15:28												
CRHE-IDW144955-20101015								GW		✓				
CRHE-IDW144956-20101015										✓				

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

CoC hB lab Office

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

October 24, 2011

Jill Johnson
GeoSyntec Consultants
9515 Holsberry Road, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 11-173

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from October 19 to 21, 2011. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
25132 SW 1st Ave
Newberry, FL 32669
Phone: 352-472-5830
Fax: 352-472-5832
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From October 19 to 21, 2011, a total of 58 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, freon 113, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA Client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier "I". Some results were changed from the Field Report to the Final Report to reflect this requirement.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	10/19/11	94	96	103	101	Pass	Pass	Pass	Pass
RSTD 20	10/19/11	95	101	103	96	Pass	Pass	Pass	Pass
BLANK	10/19/11	102	104	102	91	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0	10/19/11	100	105	102	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-033.0	10/19/11	74	87	92	89	< LCL	Pass	Pass	Pass
CRHE-DPT0156-038.0	10/19/11	104	115	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0156-043.0	10/19/11	109	117	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0156-048.0	10/19/11	98	108	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0157-028.0	10/19/11	94	107	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0157-033.0	10/19/11	112	111	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0 MS	10/19/11	106	104	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0 MSD	10/19/11	102	104	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0157-038.0	10/19/11	111	110	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0157-043.0	10/19/11	93	113	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0157-048.0	10/19/11	96	112	98	92	Pass	Pass	Pass	Pass
WILC-IDW-185534 1:10	10/19/11	115	117	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0158-028.0	10/19/11	112	113	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0158-033.0	10/19/11	105	111	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0158-038.0	10/19/11	108	111	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0158-043.0	10/19/11	109	116	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0158-048.0	10/19/11	111	117	93	97	Pass	Pass	Pass	Pass
WILC-IDW-185535 1:10	10/19/11	112	119	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0158-043.0 1:5	10/19/11	112	114	93	97	Pass	Pass	Pass	Pass
CRHE-DPT0159-028.0	10/19/11	110	114	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0159-033.0 1:5	10/19/11	109	113	96	93	Pass	Pass	Pass	Pass
CRHE-DPT0159-038.0	10/19/11	111	118	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0159-043.0	10/19/11	113	117	97	91	Pass	Pass	Pass	Pass
CRHE-DPT0159-048.0	10/19/11	94	113	102	96	Pass	Pass	Pass	Pass
VSTD 20	10/19/11	110	113	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0159-028.0 1:5	10/19/11	112	115	94	89	Pass	Pass	Pass	Pass
CCS 20	10/20/11	103	106	104	94	Pass	Pass	Pass	Pass
RSTD 20	10/20/11	99	102	100	93	Pass	Pass	Pass	Pass
BLANK	10/20/11	110	122	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0	10/20/11	109	115	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0160-033.0	10/20/11	107	116	104	96	Pass	Pass	Pass	Pass
CRHE-DPT0160-038.0	10/20/11	110	116	105	93	Pass	Pass	Pass	Pass
CRHE-DPT0160-043.0	10/20/11	106	114	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0160-048.0	10/20/11	109	120	103	90	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0161-028.0	10/20/11	104	121	103	89	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0 MS	10/20/11	95	113	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0 MSD	10/20/11	88	104	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0161-033.0	10/20/11	134	127	100	94	> UCL	Pass	Pass	Pass
CRHE-DPT0161-038.0	10/20/11	112	125	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0161-043.0	10/20/11	112	128	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0161-048.0	10/20/11	110	125	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-028.0	10/20/11	104	126	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-033.0 1:5	10/20/11	111	125	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0161-033.0 1:20	10/20/11	118	132	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-038.0	10/20/11	113	116	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-043.0	10/20/11	116	118	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0162-048.0	10/20/11	120	122	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0	10/20/11	116	122	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-063.0	10/20/11	117	119	99	93	Pass	Pass	Pass	Pass
CRHE-DPT0163-028.0	10/20/11	118	121	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0163-033.0	10/20/11	121	123	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0163-038.0	10/20/11	116	122	96	92	Pass	Pass	Pass	Pass
CRHE-DPT0163-043.0	10/20/11	112	119	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0163-048.0	10/20/11	117	119	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0 MS	10/20/11	110	118	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0 MSD	10/20/11	112	119	96	95	Pass	Pass	Pass	Pass
VSTD 20	10/20/11	111	117	98	94	Pass	Pass	Pass	Pass
CCS 20	10/21/11	94	102	97	95	Pass	Pass	Pass	Pass
RSTD 20	10/21/11	107	107	101	95	Pass	Pass	Pass	Pass
BLANK	10/21/11	111	116	99	92	Pass	Pass	Pass	Pass
CRHE-DPT0164-028.0	10/21/11	114	114	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-033.0	10/21/11	116	120	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0164-038.0	10/21/11	118	122	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0164-043.0	10/21/11	119	130	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-048.0	10/21/11	119	129	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-053.0	10/21/11	113	119	94	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-063.0	10/21/11	120	130	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0165-028.0	10/21/11	116	126	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0165-033.0	10/21/11	116	127	95	91	Pass	Pass	Pass	Pass
CRHE-DPT0165-038.0	10/21/11	117	129	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0165-043.0	10/21/11	118	130	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0165-048.0	10/21/11	122	135	96	96	> UCL	> UCL	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-IDW-185537 1:10	10/21/11	124	137	96	93	> UCL	> UCL	Pass	Pass
CRHE-IDW-185538 1:10	10/21/11	122	136	92	93	> UCL	> UCL	Pass	Pass
VSTD 20	10/21/11	114	129	98	94	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 10/19/11-10/21/11	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0156-028.0 **Date of Analysis:** 10/19/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	102	107	5	Pass	Pass	Pass
Freon 113	50	143	20	107	99	8	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	112	112	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	94	98	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	92	93	0	Pass	Pass	Pass
Trichloroethene	60	127	20	103	108	5	Pass	Pass	Pass
Tetrachloroethene	50	132	20	115	120	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0160-028.0 **Date of Analysis:** 10/20/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	112	14	Pass	Pass	Pass
Freon 113	50	143	20	110	107	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	117	112	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	109	96	12	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	101	94	7	Pass	Pass	Pass
Trichloroethene	60	127	20	108	110	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	121	116	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0162-053.0 **Date of Analysis:** 10/20/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	101	103	2	Pass	Pass	Pass
Freon 113	50	143	20	102	105	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	124	121	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	117	116	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	125	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	116	118	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	123	124	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 10/19/11-10/21/11	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 10/19/2011
LCS 2 — 10/20/2011
LCS 3 — 10/21/2011

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	52	to	150	101	97	93	Pass	Pass	Pass
Freon 113	59	to	168	109	110	107	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	119	126	127	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	112	114	111	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	105	106	106	Pass	Pass	Pass
Trichloroethene	68	to	119	105	111	113	Pass	Pass	Pass
Tetrachloroethene	58	to	127	113	125	127	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0156-028.0-20111019	10/19/2011	0924	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-033.0-20111019	10/19/2011	0937	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-038.0-20111019	10/19/2011	0949	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-043.0-20111019	10/19/2011	1003	Water	1	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0156-048.0-20111019	10/19/2011	1019	Water	1	**12.3**	<1.0	**5.9**	<1.0	**2.0**	<1.0	<1.0
CRHE-DPT0157-028.0-20111019	10/19/2011	1106	Water	1	<1.0	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0157-033.0-20111019	10/19/2011	1118	Water	1	<1.0	<1.0	<1.0	<1.0	**3.7**	<1.0	<1.0
CRHE-DPT0157-038.0-20111019	10/19/2011	1230	Water	1	<1.0	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0157-043.0-20111019	10/19/2011	1245	Water	1	<1.0	<1.0	<1.0	<1.0	**3.0**	<1.0	<1.0
CRHE-DPT0157-048.0-20111019	10/19/2011	1302	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-028.0-20111019	10/19/2011	1347	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-033.0-20111019	10/19/2011	1403	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-038.0-20111019	10/19/2011	1420	Water	1	**110**	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0158-043.0-20111019	10/19/2011	1435	Water	1, 5	**210**	<1.0	<1.0	**2.2**	**6.2**	<1.0	<1.0
CRHE-DPT0158-048.0-20111019	10/19/2011	1451	Water	1	**59.9**	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0
CRHE-DPT0159-028.0-20111019	10/19/2011	1601	Water	1, 5	**120**	<1.0	<1.0	<1.0	**4.8**	<1.0	<1.0
CRHE-DPT0159-033.0-20111019	10/19/2011	1613	Water	5	**49.0**	<5.0	<5.0	<5.0	**140**	<5.0	<5.0
CRHE-DPT0159-038.0-20111019	10/19/2011	1628	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-043.0-20111019	10/19/2011	1644	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-048.0-20111019	10/19/2011	1657	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-028.0-20111020	10/20/2011	0807	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0160-033.0-20111020	10/20/2011	0820	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-038.0-20111020	10/20/2011	0833	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-043.0-20111020	10/20/2011	0850	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-048.0-20111020	10/20/2011	0910	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-028.0-20111020	10/20/2011	0950	Water	1	**110**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-033.0-20111020	10/20/2011	1026	Water	1, 20	**1100**	<1.0	<1.0	**4.4**	**3.6**	<1.0	<1.0
CRHE-DPT0161-038.0-20111020	10/20/2011	1040	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-043.0-20111020	10/20/2011	1055	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-048.0-20111020	10/20/2011	1114	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-028.0-20111020	10/20/2011	1141	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-033.0-20111020	10/20/2011	1154	Water	5	**160**	<5.0	<5.0	**4.2 I**	**83**	**1.5 I**	<5.0
CRHE-DPT0162-038.0-20111020	10/20/2011	1249	Water	1	**14.0**	<1.0	<1.0	<1.0	**4.4**	<1.0	<1.0
CRHE-DPT0162-043.0-20111020	10/20/2011	1304	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-048.0-20111020	10/20/2011	1322	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-053.0-20111020	10/20/2011	1339	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-063.0-20111020	10/20/2011	1401	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-028.0-20111020	10/20/2011	1428	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-033.0-20111020	10/20/2011	1501	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-038.0-20111020	10/20/2011	1515	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-043.0-20111020	10/20/2011	1531	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-048.0-20111020	10/20/2011	1547	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0164-028.0-20111021	10/21/2011	0804	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-033.0-20111021	10/21/2011	0834	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-038.0-20111021	10/21/2011	0852	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-043.0-20111021	10/21/2011	0909	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-048.0-20111021	10/21/2011	0924	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-053.0-20111021	10/21/2011	0942	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-063.0-20111021	10/21/2011	1023	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-028.0-20111021	10/21/2011	1052	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-033.0-20111021	10/21/2011	1104	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-038.0-20111021	10/21/2011	1119	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-043.0-20111021	10/21/2011	1134	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-048.0-20111021	10/21/2011	1148	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA IDW

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
WILC -IDW-185534-20111019	10/19/2011	1144	Water	10	**28**	<10	<10	<10	**77**	**3.7 I**	<10
WILC- IDW-185535-20111019	10/19/2011	1145	Water	10	**2.8 I**	<10	<10	<10	**3.6 I**	<3.0 I	<10
CRHE-IDW-185537-20111021	10/21/2011	NA	Water	10	<10	<10	<10	<10	<10	<3.0 I	<10
CRHE-IDW-185538-20111021	10/21/2011	NA	Water	10	<10	<10	<10	<10	<10	<3.0 I	<10

Reporting units for waters are ug/L and for soils are mg/kg.

FR1681

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K61

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE 155 FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
1681101911											
DPTO155-025.0	10/18/11	0924			10/18/11	0925		GW	2	✓	changed by client
DPTO155-033.0		0937				0939					
-038.0		0949				0950					
-043.0		1003				1005					
-048.0		1019				1020					
DPTO157-028.0		1106				1110					
" 033.0		1118				1120					
IDW-185534		1144				1148			1		
IDW-185535		1145				1148			1		
DPTO157-038.0		1230				1231			2		
-043.0		1245				1247					
048.0		1302				1305					
DPTO158-028.0		1347				1348					
033.0		1403				1403					
038.0		1420				1422					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/19/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1#01911											
DPT0158-043.0	10/19/11	1435			10/19/11	1435		GW	2	✓	
" -048.0		1451				1452					
DPT0159-028.0		1601				1613					
-033.0		1613				1615					
-038.0		1618				1645					
-043.0		1644				1641					
-048.0		1657				1705					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			10/19/11	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CR/TE KSC, FL		
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB1 * 102011											
DPT 0160-028.0	10/20/11	0817			10/20/11	0825		GW	2		
-033.0		0820				0825					
-038.0		0833				0850					
-043.0		0850				0850					
-048.0		0910				0918					
DPT 0161 -028.0		0950				0955					
-033.0		1026				1040					
-038.0		1040				1040					
-043.0		1055				1123					
-048.0		1114				1123					
DPT 0162-028.0		1141				1200					
033.0		1154				1200					
038.0		1249				1309					
043.0		1304				1309					
048.0		1324				1348					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/20/11	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # ICS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE ICSQFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0162-053.0	10/20/11	1339			10/20/11	1348		GW	2	✓	
" -063.0		1401				1420					
DPT0163-028.0		1428				1435					
033.0		1501				1509					
038.0		1515				1519					
043.0		1531				1533					
048.0		1547				1553					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/20/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1 *102111											
DPT0164-028.0	10/21/11	0804			10/21/11	0840		GW	2	✓	
-033.0	↓	0834			↓	0840		↓	↓	↓	
-038.0		0852				0915					
-043.0		0909				0915					
-048.0		0924				0947					
-053.0		0942				0947					
-063.0		1023				1030					
DPT0165-028.0		1052				1110					
-033.0		1104				1110					
-038.0		1119				1140					
-043.0		1134				1140					
-048.0		1148				1156					
IDW-185537						1235					
IDW-185538	↓				↓	1235		↓	↓	↓	

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/21/11	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

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***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

October 24, 2011

Jill Johnson
GeoSyntec Consultants
9515 Holsberry Road, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 11-173

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from October 19 to 21, 2011. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From October 19 to 21, 2011, a total of 58 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, freon 113, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA Client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier "I". Some results were changed from the Field Report to the Final Report to reflect this requirement.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	10/19/11	94	96	103	101	Pass	Pass	Pass	Pass
RSTD 20	10/19/11	95	101	103	96	Pass	Pass	Pass	Pass
BLANK	10/19/11	102	104	102	91	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0	10/19/11	100	105	102	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-033.0	10/19/11	74	87	92	89	< LCL	Pass	Pass	Pass
CRHE-DPT0156-038.0	10/19/11	104	115	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0156-043.0	10/19/11	109	117	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0156-048.0	10/19/11	98	108	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0157-028.0	10/19/11	94	107	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0157-033.0	10/19/11	112	111	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0 MS	10/19/11	106	104	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0 MSD	10/19/11	102	104	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0157-038.0	10/19/11	111	110	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0157-043.0	10/19/11	93	113	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0157-048.0	10/19/11	96	112	98	92	Pass	Pass	Pass	Pass
WILC-IDW-185534 1:10	10/19/11	115	117	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0158-028.0	10/19/11	112	113	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0158-033.0	10/19/11	105	111	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0158-038.0	10/19/11	108	111	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0158-043.0	10/19/11	109	116	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0158-048.0	10/19/11	111	117	93	97	Pass	Pass	Pass	Pass
WILC-IDW-185535 1:10	10/19/11	112	119	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0158-043.0 1:5	10/19/11	112	114	93	97	Pass	Pass	Pass	Pass
CRHE-DPT0159-028.0	10/19/11	110	114	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0159-033.0 1:5	10/19/11	109	113	96	93	Pass	Pass	Pass	Pass
CRHE-DPT0159-038.0	10/19/11	111	118	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0159-043.0	10/19/11	113	117	97	91	Pass	Pass	Pass	Pass
CRHE-DPT0159-048.0	10/19/11	94	113	102	96	Pass	Pass	Pass	Pass
VSTD 20	10/19/11	110	113	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0159-028.0 1:5	10/19/11	112	115	94	89	Pass	Pass	Pass	Pass
CCS 20	10/20/11	103	106	104	94	Pass	Pass	Pass	Pass
RSTD 20	10/20/11	99	102	100	93	Pass	Pass	Pass	Pass
BLANK	10/20/11	110	122	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0	10/20/11	109	115	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0160-033.0	10/20/11	107	116	104	96	Pass	Pass	Pass	Pass
CRHE-DPT0160-038.0	10/20/11	110	116	105	93	Pass	Pass	Pass	Pass
CRHE-DPT0160-043.0	10/20/11	106	114	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0160-048.0	10/20/11	109	120	103	90	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0161-028.0	10/20/11	104	121	103	89	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0 MS	10/20/11	95	113	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0 MSD	10/20/11	88	104	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0161-033.0	10/20/11	134	127	100	94	> UCL	Pass	Pass	Pass
CRHE-DPT0161-038.0	10/20/11	112	125	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0161-043.0	10/20/11	112	128	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0161-048.0	10/20/11	110	125	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-028.0	10/20/11	104	126	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-033.0 1:5	10/20/11	111	125	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0161-033.0 1:20	10/20/11	118	132	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-038.0	10/20/11	113	116	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-043.0	10/20/11	116	118	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0162-048.0	10/20/11	120	122	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0	10/20/11	116	122	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-063.0	10/20/11	117	119	99	93	Pass	Pass	Pass	Pass
CRHE-DPT0163-028.0	10/20/11	118	121	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0163-033.0	10/20/11	121	123	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0163-038.0	10/20/11	116	122	96	92	Pass	Pass	Pass	Pass
CRHE-DPT0163-043.0	10/20/11	112	119	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0163-048.0	10/20/11	117	119	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0 MS	10/20/11	110	118	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0 MSD	10/20/11	112	119	96	95	Pass	Pass	Pass	Pass
VSTD 20	10/20/11	111	117	98	94	Pass	Pass	Pass	Pass
CCS 20	10/21/11	94	102	97	95	Pass	Pass	Pass	Pass
RSTD 20	10/21/11	107	107	101	95	Pass	Pass	Pass	Pass
BLANK	10/21/11	111	116	99	92	Pass	Pass	Pass	Pass
CRHE-DPT0164-028.0	10/21/11	114	114	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-033.0	10/21/11	116	120	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0164-038.0	10/21/11	118	122	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0164-043.0	10/21/11	119	130	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-048.0	10/21/11	119	129	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-053.0	10/21/11	113	119	94	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-063.0	10/21/11	120	130	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0165-028.0	10/21/11	116	126	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0165-033.0	10/21/11	116	127	95	91	Pass	Pass	Pass	Pass
CRHE-DPT0165-038.0	10/21/11	117	129	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0165-043.0	10/21/11	118	130	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0165-048.0	10/21/11	122	135	96	96	> UCL	> UCL	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-IDW-185537 1:10	10/21/11	124	137	96	93	> UCL	> UCL	Pass	Pass
CRHE-IDW-185538 1:10	10/21/11	122	136	92	93	> UCL	> UCL	Pass	Pass
VSTD 20	10/21/11	114	129	98	94	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 10/19/11-10/21/11	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0156-028.0 **Date of Analysis:** 10/19/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	102	107	5	Pass	Pass	Pass
Freon 113	50	143	20	107	99	8	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	112	112	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	94	98	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	92	93	0	Pass	Pass	Pass
Trichloroethene	60	127	20	103	108	5	Pass	Pass	Pass
Tetrachloroethene	50	132	20	115	120	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0160-028.0 **Date of Analysis:** 10/20/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	112	14	Pass	Pass	Pass
Freon 113	50	143	20	110	107	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	117	112	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	109	96	12	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	101	94	7	Pass	Pass	Pass
Trichloroethene	60	127	20	108	110	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	121	116	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0162-053.0 **Date of Analysis:** 10/20/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	101	103	2	Pass	Pass	Pass
Freon 113	50	143	20	102	105	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	124	121	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	117	116	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	125	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	116	118	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	123	124	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 10/19/11-10/21/11	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 10/19/2011
LCS 2 — 10/20/2011
LCS 3 — 10/21/2011

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	52	to	150	101	97	93	Pass	Pass	Pass
Freon 113	59	to	168	109	110	107	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	119	126	127	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	112	114	111	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	105	106	106	Pass	Pass	Pass
Trichloroethene	68	to	119	105	111	113	Pass	Pass	Pass
Tetrachloroethene	58	to	127	113	125	127	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0156-028.0-20111019	10/19/2011	0924	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-033.0-20111019	10/19/2011	0937	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-038.0-20111019	10/19/2011	0949	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-043.0-20111019	10/19/2011	1003	Water	1	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0156-048.0-20111019	10/19/2011	1019	Water	1	**12.3**	<1.0	**5.9**	<1.0	**2.0**	<1.0	<1.0
CRHE-DPT0157-028.0-20111019	10/19/2011	1106	Water	1	<1.0	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0157-033.0-20111019	10/19/2011	1118	Water	1	<1.0	<1.0	<1.0	<1.0	**3.7**	<1.0	<1.0
CRHE-DPT0157-038.0-20111019	10/19/2011	1230	Water	1	<1.0	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0157-043.0-20111019	10/19/2011	1245	Water	1	<1.0	<1.0	<1.0	<1.0	**3.0**	<1.0	<1.0
CRHE-DPT0157-048.0-20111019	10/19/2011	1302	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-028.0-20111019	10/19/2011	1347	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-033.0-20111019	10/19/2011	1403	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-038.0-20111019	10/19/2011	1420	Water	1	**110**	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0158-043.0-20111019	10/19/2011	1435	Water	1, 5	**210**	<1.0	<1.0	**2.2**	**6.2**	<1.0	<1.0
CRHE-DPT0158-048.0-20111019	10/19/2011	1451	Water	1	**59.9**	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0
CRHE-DPT0159-028.0-20111019	10/19/2011	1601	Water	1, 5	**120**	<1.0	<1.0	<1.0	**4.8**	<1.0	<1.0
CRHE-DPT0159-033.0-20111019	10/19/2011	1613	Water	5	**49.0**	<5.0	<5.0	<5.0	**140**	<5.0	<5.0
CRHE-DPT0159-038.0-20111019	10/19/2011	1628	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-043.0-20111019	10/19/2011	1644	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-048.0-20111019	10/19/2011	1657	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-028.0-20111020	10/20/2011	0807	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0160-033.0-20111020	10/20/2011	0820	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-038.0-20111020	10/20/2011	0833	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-043.0-20111020	10/20/2011	0850	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-048.0-20111020	10/20/2011	0910	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-028.0-20111020	10/20/2011	0950	Water	1	**110**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-033.0-20111020	10/20/2011	1026	Water	1, 20	**1100**	<1.0	<1.0	**4.4**	**3.6**	<1.0	<1.0
CRHE-DPT0161-038.0-20111020	10/20/2011	1040	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-043.0-20111020	10/20/2011	1055	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-048.0-20111020	10/20/2011	1114	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-028.0-20111020	10/20/2011	1141	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-033.0-20111020	10/20/2011	1154	Water	5	**160**	<5.0	<5.0	**4.2 I**	**83**	**1.5 I**	<5.0
CRHE-DPT0162-038.0-20111020	10/20/2011	1249	Water	1	**14.0**	<1.0	<1.0	<1.0	**4.4**	<1.0	<1.0
CRHE-DPT0162-043.0-20111020	10/20/2011	1304	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-048.0-20111020	10/20/2011	1322	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-053.0-20111020	10/20/2011	1339	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-063.0-20111020	10/20/2011	1401	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-028.0-20111020	10/20/2011	1428	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-033.0-20111020	10/20/2011	1501	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-038.0-20111020	10/20/2011	1515	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-043.0-20111020	10/20/2011	1531	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-048.0-20111020	10/20/2011	1547	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0164-028.0-20111021	10/21/2011	0804	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-033.0-20111021	10/21/2011	0834	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-038.0-20111021	10/21/2011	0852	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-043.0-20111021	10/21/2011	0909	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-048.0-20111021	10/21/2011	0924	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-053.0-20111021	10/21/2011	0942	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-063.0-20111021	10/21/2011	1023	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-028.0-20111021	10/21/2011	1052	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-033.0-20111021	10/21/2011	1104	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-038.0-20111021	10/21/2011	1119	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-043.0-20111021	10/21/2011	1134	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-048.0-20111021	10/21/2011	1148	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA IDW

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
WILC -IDW-185534-20111019	10/19/2011	1144	Water	10	**28**	<10	<10	<10	**77**	**3.7 I**	<10
WILC- IDW-185535-20111019	10/19/2011	1145	Water	10	**2.8 I**	<10	<10	<10	**3.6 I**	<3.0 I	<10
CRHE-IDW-185537-20111021	10/21/2011	NA	Water	10	<10	<10	<10	<10	<10	<3.0 I	<10
CRHE-IDW-185538-20111021	10/21/2011	NA	Water	10	<10	<10	<10	<10	<10	<3.0 I	<10

Reporting units for waters are ug/L and for soils are mg/kg.

FR1681

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K61

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE 155 FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
1681101911											
DPTO155-025.0	10/18/11	0924			10/18/11	0925		GW	2	✓	changed by client
DPTO155-033.0		0937				0939					
-038.0		0949				0950					
-043.0		1003				1005					
-048.0		1019				1020					
DPTO157-028.0		1106				1110					
" 033.0		1118				1120					
IDW-185534		1144				1148			1		
IDW-185535		1145				1148			1		
DPTO157-038.0		1230				1231			2		
-043.0		1245				1247					
048.0		1302				1305					
DPTO158-028.0		1347				1348					
033.0		1403				1403					
038.0		1420				1422					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/19/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1#01911											
DPT0158-043.0	10/19/11	1435			10/19/11	1435		GW	2	✓	
" -048.0		1451				1452					
DPT0159-028.0		1601				1613					
-033.0		1613				1615					
-038.0		1618				1645					
-043.0		1644				1641					
-048.0		1657				1705					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			10/19/11	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CR/TE KSC, FL		
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB1 * 102011											
DPT 0160-028.0	10/20/11	0817			10/20/11	0825		GW	2		
-033.0		0820				0825					
-038.0		0833				0850					
-043.0		0850				0850					
-048.0		0910				0918					
DPT 0161 -028.0		0950				0955					
-033.0		1026				1040					
-038.0		1040				1040					
-043.0		1055				1123					
-048.0		1114				1123					
DPT 0162-028.0		1141				1200					
033.0		1154				1200					
038.0		1249				1309					
043.0		1304				1309					
048.0		1324				1348					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/20/11	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # ICS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE ICSQFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0162-053.0	10/20/11	1339			10/20/11	1348		GW	2	✓	
" -063.0		1401				1420					
DPT0163-028.0		1428				1435					
033.0		1501				1509					
038.0		1515				1519					
043.0		1531				1533					
048.0		1547				1553					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/20/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1 *102111											
DPT0164-028.0	10/21/11	0804			10/21/11	0840		GW	2	✓	
-033.0	↓	0834			↓	0840		↓	↓	↓	
-038.0		0852				0915					
-043.0		0909				0915					
-048.0		0924				0947					
-053.0		0942				0947					
-063.0		1023				1030					
DPT0165-028.0		1052				1110					
-033.0		1104				1110					
-038.0		1119				1140					
-043.0		1134				1140					
-048.0		1148				1156					
IDW-185537						1235					
IDW-185538	↓				↓	1235		↓	↓	↓	

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/21/11	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

January 16, 2012

Jill Johnson
GeoSyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project #11-173

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from January 9 to 12, 2012. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

KB Labs, Inc.
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PROJECT NARRATIVE

Project Scope

From January 9 to 12, 2012, a total of 71 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840
KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the

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standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data qualifier "I".

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 1/9/12-1/12/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	01/09/12	110	92	102	96	Pass	Pass	Pass	Pass
RSTD 20	01/09/12	105	95	103	100	Pass	Pass	Pass	Pass
BLANK	01/09/12	111	95	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0166-028.0	01/09/12	100	87	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0166-033.0	01/09/12	118	98	103	84	Pass	Pass	Pass	Pass
CRHE-DPT0166-043.0	01/09/12	119	97	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0166-048.0	01/09/12	109	107	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0166-028.0 MS	01/09/12	115	98	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0166-028.0 MSD	01/09/12	115	101	106	86	Pass	Pass	Pass	Pass
CRHE-DPT0166-038.0	01/09/12	118	100	102	97	Pass	Pass	Pass	Pass
CRHE-DPT0167-028.0	01/09/12	117	95	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0167-033.0	01/09/12	121	102	104	95	Pass	Pass	Pass	Pass
CRHE-DPT0167-038.0	01/09/12	122	104	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0167-043.0	01/09/12	124	103	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0167-048.0	01/09/12	123	107	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0168-028.0	01/09/12	123	105	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0168-033.0	01/09/12	121	106	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0168-038.0	01/09/12	107	99	105	94	Pass	Pass	Pass	Pass
CRHE-DPT0168-043.0	01/09/12	124	107	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0168-048.0	01/09/12	123	104	103	95	Pass	Pass	Pass	Pass
CRHE-DPT0169-028.0	01/09/12	125	110	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0169-033.0	01/09/12	127	107	100	96	> UCL	Pass	Pass	Pass
CRHE-DPT0169-038.0	01/09/12	126	107	97	98	> UCL	Pass	Pass	Pass
CRHE-DPT0169-043.0	01/09/12	126	110	102	98	> UCL	Pass	Pass	Pass
CRHE-DPT0169-048.0	01/09/12	128	112	102	98	> UCL	Pass	Pass	Pass
VSTD 20	01/09/12	123	105	102	94	Pass	Pass	Pass	Pass
BLANK	01/10/12	101	104	98	107	Pass	Pass	Pass	Pass
CCS 20	01/10/12	100	104	98	105	Pass	Pass	Pass	Pass
LCS 20	01/10/12	101	105	97	104	Pass	Pass	Pass	Pass
BLANK	01/10/12	101	105	100	108	Pass	Pass	Pass	Pass
CRHE-DPT0170-028.0	01/10/12	100	101	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0170-033.0	01/10/12	97	96	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0170-038.0	01/10/12	100	101	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0170-043.0	01/10/12	103	107	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0170-048.0	01/10/12	101	105	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0170-028.0 MS	01/10/12	98	97	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0170-028.0 MSD	01/10/12	100	100	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0171-028.0	01/10/12	100	100	100	106	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 1/9/12-1/12/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0171-033.0	01/10/12	104	108	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0171-038.0	01/10/12	102	104	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0171-043.0	01/10/12	104	109	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0171-048.0	01/10/12	103	109	98	106	Pass	Pass	Pass	Pass
CRHE-DPT0172-028.0	01/10/12	101	101	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0172-033.0	01/10/12	103	105	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0172-038.0	01/10/12	100	101	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0172-043.0	01/10/12	101	100	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0172-048.0	01/10/12	102	106	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0172-053.0	01/10/12	104	109	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0172-063.0	01/10/12	104	107	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0173-028.0	01/10/12	103	106	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0173-033.0	01/10/12	103	108	98	104	Pass	Pass	Pass	Pass
CRHE-DPT0173-038.0	01/10/12	104	107	99	104	Pass	Pass	Pass	Pass
CCS 20	01/10/12	97	103	99	100	Pass	Pass	Pass	Pass
BLANK	01/11/12	97	96	102	106	Pass	Pass	Pass	Pass
CCS 20	01/11/12	99	100	99	104	Pass	Pass	Pass	Pass
LCS 20	01/11/12	99	106	98	102	Pass	Pass	Pass	Pass
BLANK	01/11/12	101	106	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0173-043.0	01/11/12	101	103	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0173-048.0	01/11/12	103	109	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0173-053.0	01/11/12	102	105	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0173-063.0	01/11/12	103	109	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0174-028.0	01/11/12	103	108	98	106	Pass	Pass	Pass	Pass
CRHE-DPT0174-033.0 1:10	01/11/12	103	105	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0174-033.0 1:20	01/11/12	102	104	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0174-038.0 1:50	01/11/12	102	103	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0174-043.0 1:50	01/11/12	102	107	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0174-048.0 1:20	01/11/12	101	105	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-028.0	01/11/12	103	103	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0175-033.0	01/11/12	103	107	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0175-038.0	01/11/12	104	109	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-043.0	01/11/12	104	109	97	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-048.0	01/11/12	103	105	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-048.0 MS	01/11/12	101	107	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0175-048.0 MSD	01/11/12	99	102	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0176-028.0	01/11/12	103	107	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0176-033.0	01/11/12	105	111	97	102	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 1/9/12-1/12/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0176-038.0	01/11/12	106	110	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0176-043.0	01/11/12	104	106	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0176-048.0	01/11/12	104	108	99	102	Pass	Pass	Pass	Pass
CRHE-IDW 188675	01/11/12	106	114	97	102	Pass	Pass	Pass	Pass
CCS 20	01/11/12	98	99	101	95	Pass	Pass	Pass	Pass
BLANK	01/12/12	106	110	100	103	Pass	Pass	Pass	Pass
CCS 20	01/12/12	104	107	98	97	Pass	Pass	Pass	Pass
LCS 20	01/12/12	101	102	99	98	Pass	Pass	Pass	Pass
BLANK	01/12/12	103	107	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-028.0	01/12/12	106	109	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-033.0	01/12/12	101	97	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-038.0	01/12/12	106	109	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0177-043.0	01/12/12	103	106	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-048.0	01/12/12	106	110	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0177-048.0 MS	01/12/12	101	103	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0177-048.0 MSD	01/12/12	100	100	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0178-028.0	01/12/12	101	97	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0178-033.0	01/12/12	104	106	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0178-038.0	01/12/12	104	102	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0178-043.0	01/12/12	105	109	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0178-048.0	01/12/12	104	104	99	100	Pass	Pass	Pass	Pass
CRHE-IDW088675	01/12/12	109	115	96	101	Pass	Pass	Pass	Pass
CCS 20	01/12/12	108	120	95	93	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 1/9/12-1/12/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0166-028.0 **Date of Analysis:** 1/9/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	102	104	2	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	105	107	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	103	107	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	107	110	2	Pass	Pass	Pass
Trichloroethene	67	128	20	89	90	1	Pass	Pass	Pass
Tetrachloroethene	60	140	20	86	90	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0170-028.0 **Date of Analysis:** 1/10/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	77	79	3	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	91	95	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	83	86	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	85	88	4	Pass	Pass	Pass
Trichloroethene	67	128	20	83	87	4	Pass	Pass	Pass
Tetrachloroethene	60	140	20	83	86	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0175-048.0 **Date of Analysis:** 1/11/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	89	92	3	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	115	113	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	89	87	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	91	89	2	Pass	Pass	Pass
Trichloroethene	67	128	20	89	88	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	86	87	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0177-048.0 **Date of Analysis:** 1/12/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	93	90	4	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	115	110	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	86	84	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	89	86	3	Pass	Pass	Pass
Trichloroethene	67	128	20	89	86	3	Pass	Pass	Pass
Tetrachloroethene	60	140	20	86	84	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 1/9/12-1/12/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1, LCS 2, LCS 3 **Date of Analysis:** 1/9/2012, 1/10/2012, 1/11/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	58	to	135	103	89	95	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	100	104	116	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	99	102	97	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	95	105	99	Pass	Pass	Pass
Trichloroethene	68	to	128	83	106	99	Pass	Pass	Pass
Tetrachloroethene	67	to	135	90	102	95	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:**

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4			LCS#4		
Vinyl Chloride	58	to	135	90			Pass		
1,1-Dichloroethene	60	to	141	108			Pass		
Trans-1,2-Dichloroethene	62	to	133	88			Pass		
Cis-1,2-Dichloroethene	62	to	140	90			Pass		
Trichloroethene	68	to	128	90			Pass		
Tetrachloroethene	67	to	135	88			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0166-028.0-20120109	1/9/2012	0905	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-033.0-20120109	1/9/2012	0938	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-038.0-20120109	1/9/2012	1000	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-043.0-20120109	1/9/2012	1020	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-048.0-20120109	1/9/2012	1040	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-028.0-20120109	1/9/2012	1148	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-033.0-20120109	1/9/2012	1204	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-038.0-20120109	1/9/2012	1230	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-043.0-20120109	1/9/2012	1248	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-048.0-20120109	1/9/2012	1302	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-028.0-20120109	1/9/2012	1355	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-033.0-20120109	1/9/2012	1412	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-038.0-20120109	1/9/2012	1432	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-043.0-20120109	1/9/2012	1450	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-048.0-20120109	1/9/2012	1512	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0169-028.0-20120109	1/9/2012	1620	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0169-033.0-20120109	1/9/2012	1632	Water	1	**1.2**	<1.0	<1.0	**5.0**	<1.0	<1.0
CRHE-DPT0169-038.0-20120109	1/9/2012	1646	Water	1	**17.6**	<1.0	<1.0	**32.2**	<1.0	<1.0
CRHE-DPT0169-043.0-20120109	1/9/2012	1704	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0169-048.0-20120109	1/9/2012	1718	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-028.0-20120110	1/10/2012	0823	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-033.0-20120110	1/10/2012	0836	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-038.0-20120110	1/10/2012	0854	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-043.0-20120110	1/10/2012	0915	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-048.0-20120110	1/10/2012	0932	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-028.0-20120110	1/10/2012	1049	Water	1	**6.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-033.0-20120110	1/10/2012	1105	Water	1	**18.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-038.0-20120110	1/10/2012	1121	Water	1	**52.6**	<1.0	<1.0	**1.6**	<1.0	<1.0
CRHE-DPT0171-043.0-20120110	1/10/2012	1137	Water	1	**50.7**	<1.0	<1.0	**2.5**	<1.0	<1.0
CRHE-DPT0171-048.0-20120110	1/10/2012	1155	Water	1	**7.0**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0172-028.0-20120110	1/10/2012	1346	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0172-033.0-20120110	1/10/2012	1402	Water	1	**48.2**	<1.0	<1.0	**2.1**	<1.0	<1.0
CRHE-DPT0172-038.0-20120110	1/10/2012	1418	Water	1	**27.7**	<1.0	<1.0	**4.0**	<1.0	<1.0
CRHE-DPT0172-043.0-20120110	1/10/2012	1436	Water	1	**13.5**	<1.0	<1.0	**4.3**	<1.0	<1.0
CRHE-DPT0172-048.0-20120110	1/10/2012	1500	Water	1	**27.0**	<1.0	**2.2**	**84.4**	<1.0	<1.0
CRHE-DPT0172-053.0-20120110	1/10/2012	1526	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0172-063.0-20120110	1/10/2012	1550	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-028.0-20120110	1/10/2012	1635	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-033.0-20120110	1/10/2012	1647	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-038.0-20120110	1/10/2012	1705	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-043.0-20120111	1/11/2012	0745	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-048.0-20120111	1/11/2012	0805	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-053.0-20120111	1/11/2012	0825	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-063.0-20120111	1/11/2012	0850	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0174-028.0-20120111	1/11/2012	1003	Water	1	**1.4**	<1.0	**2.4**	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: GeoSyntec

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0174-033.0-20120111	1/11/2012	1018	Water	10, 20	**720**	**6.5 I**	**48**	**1600**	**22**	<10
CRHE-DPT0174-038.0-20120111	1/11/2012	1034	Water	50	**740**	<50	**80**	**2800**	<13 I	<50
CRHE-DPT0174-043.0-20120111	1/11/2012	1053	Water	50	**400**	<50	**85**	**2600**	**31 I**	<50
CRHE-DPT0174-048.0-20120111	1/11/2012	1134	Water	20	**280**	<20	**37**	**1100**	<5 I	<20
CRHE-DPT0175-028.0-20120111	1/11/2012	1202	Water	1	<1.0	<1.0	<1.0	**4.5**	<1.0	<1.0
CRHE-DPT0175-033.0-20120111	1/11/2012	1248	Water	1	<1.0	<1.0	<1.0	**7.6**	<1.0	<1.0
CRHE-DPT0175-038.0-20120111	1/11/2012	1304	Water	1	<1.0	<1.0	<1.0	**19.1**	<1.0	<1.0
CRHE-DPT0175-043.0-20120111	1/11/2012	1320	Water	1	**1.5**	<1.0	<1.0	**19.8**	<1.0	<1.0
CRHE-DPT0175-048.0-20120111	1/11/2012	1342	Water	1	**6.5**	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0176-028.0-20120111	1/11/2012	1437	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-033.0-20120111	1/11/2012	1455	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-038.0-20120111	1/11/2012	1512	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-043.0-20120111	1/11/2012	1532	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-048.0-20120111	1/11/2012	1555	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-028.0-20120112	1/12/2012	0826	Water	1	**15.5**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0177-033.0-20120112	1/12/2012	0856	Water	1	**7.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-038.0-20120112	1/12/2012	0918	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-043.0-20120112	1/12/2012	0934	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-048.0-20120112	1/12/2012	0952	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-028.0-20120112	1/12/2012	1110	Water	1	**35.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-033.0-20120112	1/12/2012	1129	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-038.0-20120112	1/12/2012	1145	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-043.0-20120112	1/12/2012	1200	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-048.0-20120112	1/12/2012	1218	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE - IDW

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW188675-20120111	1/11/2012	1715	Water	1	**8.1**	<1.0	<1.0	**40.4**	<1.0	<1.0
CRHE-IDW088675-20120112	1/12/2012	1410	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER KB1+0109/12	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0166-028.0	4/9/12	0905			4/9/12	1050		GW	2	✓	
-033.0		0938									
038.0		1000									
043.0		1020									
048.0		1040									
DPT0167-028.0		1148				1315					
033.0		1204									
038.0		1230									
043.0		1248									
048.0		1300									
DPT0168 028.0		1355				1520					
033.0		1412									
038.0		1432									
043.0		1450									
048.0		1512									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	4/9/12	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KS1

CLIENT NAME: Graydon

PROJECT NAME & ADDRESS: CAHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KS1-K0109-12											
Dpt-0169-028.0	1/9/12	1520			1/9/12	1720		GW	2	✓	
033.0	↓	1632			↓	↓		↓	↓	↓	
038.0		1646									
043.0		1704									
048.0		1718									

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)			1/9/12	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/4

Mobile Laboratory Services

25132 SW 1st Avenue
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200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

| CLIENT NAME | PROJECT NAME & ADDRESS | | |

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA - CRHE

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB2 - 011012 -	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0172 - 53	1/10/12	1526			1/10/12	1605		GW	2	✓	KB2 - 011112
DPT0172 - 63	↓	1550			↓	1605		↓	↓	↓	↓
DPT0173 - 28		1635				1720					
DPT0173 - 33		1647				1720					
DPT0173 - 38		1705				1720					
DPT0173 - 43	1/11/12	0745			1/11/12	0905		GW	2	✓	KB2 - 011112
DPT0173 - 48	↓	0805			↓	0905		↓	↓	↓	↓
DPT0173 - 53		0825				0905					
DPT0173 - 63		0850				0905					
DPT0174 - 28		1003				1045					
DPT0174 - 33		1018				1045					
DPT0174 - 38		1034				1045					
DPT0174 - 43		1053				1134					
DPT0174 - 48		1109				1134					
DPT0175 - 28		1202				1355					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			1/12/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # MB2

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA - CRHE

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0175 - 33	1/11/12	1248			1/11/12	1355		GW	2	✓	MB2 - 011112
DPT0175 - 38		1304				1355					
DPT0175 - 43		1320				1355					
DPT0175 - 48		1342				1355					
DPT0176 - 28		1437				1615					
DPT0176 - 33		1455				1615					
DPT0176 - 38		1512				1615					
DPT0176 - 43		1532				1615					
DPT0176 - 48		1555				1615					
IDW 188675		1715				1715					
DPT0177 - 28	1/12/12	0826			1/12/12	0835					MB2 - 011212
DPT0177 - 33		0856				0925					
DPT0177 - 38		0918				0925					
DPT0177 - 43		0934				1010					
DPT0177 - 48		0952				1010					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BM	Date / Time 1/12/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

4/4

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA - CRHC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0178-28	1/12/12	1110			1/12/12	1309		GW	2	✓	KB2 - 011212
DPT0178-33	"	1129			"	1309		"	"	"	"
DPT0178-38	"	1145			"	1309		"	"	"	"
DPT0178-43	"	1200			"	1309		"	"	"	"
DPT0178-48	"	1218			"	1309		"	"	"	"
IDW 088675	"	1410			"	1420		"	"	"	"

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 1/12/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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Newberry, Florida 32669

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Email: info@kbmobilelabs.com

February 13, 2012

Jill Johnson
Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project #12-28

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from February 7 to 10, 2012. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From February 7 to 10, 2012, a total of 53 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data qualifier "I".

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-28
On-site Dates: 2/7/12-2/10/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	02/07/12	100	99	99	98	Pass	Pass	Pass	Pass
LCS 20	02/07/12	97	90	101	100	Pass	Pass	Pass	Pass
BLANK	02/07/12	105	101	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0159-010.0	02/07/12	104	104	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0159-018.0	02/07/12	104	99	100	103	Pass	Pass	Pass	Pass
CCS 20	02/08/12	99	91	102	98	Pass	Pass	Pass	Pass
LCS 20	02/08/12	97	91	100	100	Pass	Pass	Pass	Pass
BLANK	02/08/12	105	102	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0161-010.0	02/08/12	106	99	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0161-018.0	02/08/12	105	98	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0167-010.0	02/08/12	105	98	101	105	Pass	Pass	Pass	Pass
CRHE-DPT0167-018.0	02/08/12	105	98	100	105	Pass	Pass	Pass	Pass
CCS 20	02/08/12	101	98	99	99	Pass	Pass	Pass	Pass
LCS 20	02/08/12	100	94	99	99	Pass	Pass	Pass	Pass
BLANK	02/08/12	107	104	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0179-010.0	02/08/12	106	101	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0179-018.0	02/08/12	101	96	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0179-028.0	02/08/12	109	102	113	117	Pass	Pass	Pass	Pass
CRHE-DPT0179-033.0	02/08/12	104	96	102	105	Pass	Pass	Pass	Pass
CRHE-DPT0179-038.0	02/08/12	104	100	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0179-043.0	02/08/12	109	104	98	105	Pass	Pass	Pass	Pass
CRHE-DPT0179-048.0	02/08/12	105	100	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0179-048.0 MS	02/08/12	99	92	103	100	Pass	Pass	Pass	Pass
CRHE-DPT0179-048.0 MSD	02/08/12	96	86	104	102	Pass	Pass	Pass	Pass
CRHE-DPT0180-010.0	02/08/12	103	98	101	105	Pass	Pass	Pass	Pass
CRHE-DPT0180-018.0	02/08/12	107	101	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-028.0	02/08/12	108	102	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-033.0	02/08/12	107	99	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-038.0	02/08/12	108	98	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-043.0	02/09/12	107	98	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0180-048.0	02/09/12	107	98	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-010.0	02/09/12	105	96	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-018.0	02/09/12	107	100	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0181-028.0	02/09/12	107	98	99	101	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-28
On-site Dates: 2/7/12-2/10/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0181-038.0	02/09/12	108	100	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-043.0	02/09/12	106	99	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-048.0	02/09/12	105	94	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0182-010.0	02/09/12	107	98	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0182-018.0	02/09/12	107	99	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0182-028.0	02/09/12	108	102	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0182-038.0	02/09/12	106	97	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0182-043.0	02/09/12	107	99	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0182-048.0	02/09/12	107	98	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-010.0	02/09/12	107	99	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0183-010.0 MS	02/09/12	102	95	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0183-010.0 MSD	02/09/12	99	91	100	100	Pass	Pass	Pass	Pass
CCS 20	02/09/12	96	87	102	101	Pass	Pass	Pass	Pass
CCS 20	02/09/12	97	84	102	99	Pass	Pass	Pass	Pass
LCS 20	02/09/12	97	90	100	100	Pass	Pass	Pass	Pass
BLANK	02/09/12	105	98	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-018.0	02/09/12	107	101	99	102	Pass	Pass	Pass	Pass
CCS 20	02/09/12	99	94	100	100	Pass	Pass	Pass	Pass
LCS 20	02/09/12	97	90	101	100	Pass	Pass	Pass	Pass
BLANK	02/09/12	100	94	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-018.0	02/09/12	100	92	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0183-028.0	02/09/12	102	97	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0183-038.0	02/09/12	103	97	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-043.0	02/09/12	102	93	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-048.0	02/09/12	105	98	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-010.0	02/09/12	106	96	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-014.0	02/09/12	105	96	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-023.0	02/09/12	103	93	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0184-010.0	02/09/12	102	93	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0184-018.0	02/09/12	106	98	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0184-028.0	02/09/12	105	99	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0184-033.0	02/09/12	104	96	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0184-038.0	02/10/12	104	92	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0184-043.0	02/10/12	103	93	100	101	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-28
On-site Dates: 2/7/12-2/10/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0184-048.0	02/10/12	103	95	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0159-014.0	02/10/12	103	94	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0159-023.0	02/10/12	103	95	100	102	Pass	Pass	Pass	Pass
CRHE-IDW188738 1:10	02/10/12	100	92	102	101	Pass	Pass	Pass	Pass
CRHE-IDW188736 1:10	02/10/12	100	93	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0184-048.0 MS	02/10/12	98	91	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0184-048.0 MSD	02/10/12	98	89	102	101	Pass	Pass	Pass	Pass
CCS 20	02/10/12	93	86	103	101	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-28
Onsite Dates: 2/7/12-2/10/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0179-048.0 **Date of Analysis:** 2/8/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	110	106	4	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	103	97	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	102	96	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	89	86	4	Pass	Pass	Pass
Trichloroethene	67	128	20	102	97	5	Pass	Pass	Pass
Tetrachloroethene	60	140	20	105	101	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0183-010.0 **Date of Analysis:** 2/9/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	111	102	8	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	103	93	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	104	97	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	96	90	6	Pass	Pass	Pass
Trichloroethene	67	128	20	100	93	7	Pass	Pass	Pass
Tetrachloroethene	60	140	20	103	97	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0184-048.0 **Date of Analysis:** 2/10/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	97	99	2	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	94	95	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	94	95	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	88	87	1	Pass	Pass	Pass
Trichloroethene	67	128	20	92	93	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	96	97	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-28
Onsite Dates: 2/7/12-2/10/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 2/7/2012
LCS 2 — 2/8/2012
LCS 3 — 2/8/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	58	to	135	104	106	130	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	98	99	119	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	93	100	122	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	99	94	115	Pass	Pass	Pass
Trichloroethene	68	to	128	101	97	119	Pass	Pass	Pass
Tetrachloroethene	67	to	135	102	101	122	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 2/9/2012
LCS 5 — 2/9/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5		LCS#4	LCS#5	
Vinyl Chloride	58	to	135	95	102		Pass	Pass	
1,1-Dichloroethene	60	to	141	85	97		Pass	Pass	
Trans-1,2-Dichloroethene	62	to	133	89	98		Pass	Pass	
Cis-1,2-Dichloroethene	62	to	140	87	93		Pass	Pass	
Trichloroethene	68	to	128	86	98		Pass	Pass	
Tetrachloroethene	67	to	135	91	97		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0159-010.0-20120207	2/7/2012	0923	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-018.0-20120207	2/7/2012	0944	Water	1	**16.8**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0161-010.0-20120207	2/8/2012	1030	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-018.0-20120207	2/8/2012	1047	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-010.0-20120207	2/8/2012	1320	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-018.0-20120207	2/8/2012	1339	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-010.0-20120207	2/8/2012	1427	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-018.0-20120207	2/8/2012	1440	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-028.0-20120207	2/8/2012	1453	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-033.0-20120207	2/8/2012	1511	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-038.0-20120207	2/8/2012	1528	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-043.0-20120207	2/8/2012	1542	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-048.0-20120207	2/8/2012	1605	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-010.0-20120207	2/8/2012	1632	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-018.0-20120208	2/8/2012	0802	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-028.0-20120208	2/8/2012	0816	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-033.0-20120208	2/8/2012	0836	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-038.0-20120208	2/8/2012	0854	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-043.0-20120208	2/9/2012	0914	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-048.0-20120208	2/9/2012	0930	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0181-010.0-20120208	2/9/2012	1053	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-018.0-20120208	2/9/2012	1105	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-028.0-20120208	2/9/2012	1119	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-038.0-20120208	2/9/2012	1135	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-043.0-20120208	2/9/2012	1154	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-048.0-20120208	2/9/2012	1212	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-010.0-20120208	2/9/2012	1407	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-018.0-20120208	2/9/2012	1416	Water	1	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-028.0-20120208	2/9/2012	1423	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-038.0-20120208	2/9/2012	1439	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-043.0-20120208	2/9/2012	1505	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-048.0-20120208	2/9/2012	1525	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-010.0-20120208	2/9/2012	1645	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-018.0-20120209	2/9/2012	0719	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-028.0-20120209	2/9/2012	0732	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-038.0-20120209	2/9/2012	0750	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-043.0-20120209	2/9/2012	0807	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-048.0-20120209	2/9/2012	0833	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-010.0-20120209	2/9/2012	1107	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-014.0-20120209	2/9/2012	1118	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0177-018.0-20120209	2/9/2012	1127	Water	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-023.0-20120209	2/9/2012	1136	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-010.0-20120209	2/9/2012	1336	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-018.0-20120209	2/9/2012	1346	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-028.0-20120209	2/9/2012	1356	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-033.0-20120209	2/9/2012	1413	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-038.0-20120209	2/10/2012	1430	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-043.0-20120209	2/10/2012	1446	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-048.0-20120209	2/10/2012	1500	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-014.0-20120207	2/10/2012	0936	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-023.0-20120207	2/10/2012	0956	Water	1	**53.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-IDW188738-20120209	2/10/2012	1710	Water	10	<2.4 I	<10	<10	<10	<2.5 I	<10
CRHE-IDW188736-20120209	2/10/2012	1711	Water	10	<2.4 I	<10	<10	<10	<2.5 I	<10

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

1/2

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA - CRMS	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB2-020712											
DPT0159-010.0	2/7/12	0923			2/7/12	1625		GW	2	✓	
DPT0159-014.0		0936									H
DPT0159-018.0		0944									
DPT0159-023.0		0956									H
DPT 0161-010.0		1030									
DPT 0161-014.0		1036									H - Do not run
DPT 0161-018.0		1047									
DPT 0161-023.0		1055									H - Do not run
DPT 0167-010.0		1320									
DPT 0167-014.0		1329									H - Do not run
DPT 0167-018.0		1339									
DPT 0167-023.0		1353									H - Do not run
DPT 0179-010.0		1427									
DPT 0179-018.0		1440									
DPT 0179-028.0		1453									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/7/12

Remarks and Observations

Do not run per client on 2/7/12.

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

2/2

Mobile Laboratory Services

25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB2-020712											
DPT0179-033.0	2/7/12	1511			2/7/12	1625		GW	2	✓	
DPT0179-038.0		1528				1625					
DPT0179-043.0		1542				1625					
DPT0179-048.0		1603				1625					
DPT0180-010.0		1632				1753					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			2/7/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	NASA - CRTE
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB2-020812											
DPT 0180 - 018.0	2/8/12	0802			2/8/12	1420		GW	2	✓	
028.0		0816				1420					
033.0		0836				1420					
038.0		0854				1420					
043.0		0914				1420					
048.0		0930				1420					
DPT 0181 - 010.0		1053				1420					
- 018.0		1105				1420					
- 028.0		1119				1420					
- 038.0		1135				1420					
- 043.0		1154				1420					
- 048.0		1212				1420					
DPT 0182 - 010.0		1407				1657					
018.0		1416				1657					
028.0		1423				1657					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*	2/8/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA - CRH2	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT 0182 - 038.0	2/6/12	1439			2/6/12	1657		GW	2	✓	
" - 043.0	"	1505			"	1657		"	"	"	
" - 048.0	"	1525			"	1657		"	"	"	
DPT 0183 - 010.0	"	1645			"	1657		"	"	"	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BM JR	Date / Time 2/6/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

Mobile Laboratory Services

25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	BATCH # (Lab Use Only)
Geosyntec	NASA - CRHE	
SAMPLERS	CONTACT PERSON	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB2-020912											
CRHE - DPT0183-018.0	2/9/12	0719			2/9/12	1149		GW	2	✓	
DPT 0183 - 026.0		0732				1149					
DPT 0183 - 038.0		0750				1149					
DPT 0183 - 043.0		0807				1149					
DPT 0183 - 048.0		0833				1149					
DPT 0177 - 010.0		1107				1149					
DPT 0177 - 014.0		1118				1149					
DPT 0177 - 018.0		1127				1149					
DPT 0177 - 023.0		1136				1149					
DPT 0184 - 010.0		1336				1520					
DPT 0184 - 018.0		1346				1520					
DPT 0184 - 026.0		1356				1520					
DPT 0184 - 033.0		1413				1520					
DPT 0184 - 038.0		1430				1520					
DPT 0184 - 043.0		1446				1520					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
		BD JE	2/9/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	NASA - CRHE
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB2 - 020912											
DPT0154 - 048.0	2/9/12	1500			2/9/12	1520		GW	2	V	
IDW 188738	"	1710			"	1720		"	"	"	
IDW 188736	"	1711			"	1720		"	"	"	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BB	Date / Time 2/9/12

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

April 05, 2012 Service Request No: J1201360

Ms. Jill Johnson
Geosyntec Consultants
9515 Holsberry Road
Suite A
Pensacola, FL 32534

Laboratory Results for: KSC CRHE/FR1681

Dear Ms. Johnson:

Enclosed are the results of the sample(s) submitted to our laboratory on March 22, 2012. For your reference, these analyses have been assigned our service request number **J1201360**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. If required, the laboratory can provide uncertainty measurements for each method employed in sample analysis; this uncertainty measurement would be generated using method validation studies and the laboratory's quality control data.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX; Maine, #2011006; DoD #66206.

Columbia Analytical Services™
ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
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Columbia Analytical Services, Inc.
Part of the ALS Group A Campbell Brothers Limited Company
www.caslab.com ▪ www.alsglobal.com

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Non CLP Tier III (w/o Raw Data)

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COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J1201360
Project:	KSC CRHE	**Date Received:**	3/22/12
Sample Matrix:	Water/Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III data deliverables including validation summary forms. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Twenty-nine water samples and one trip blank were received for analysis at Columbia Analytical Services on 3/22/12. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq$6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260B: The upper control criterion was exceeded for the following analyte in Laboratory Control Samples (LCS) JWG1200321-1 and JWG1200333-3: Isopropylbenzene. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

General Chemistry Analyses:

No significant data anomalies were noted with this analysis.

Approved by_____ Date 4/5/12

Client: Geosyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1201360-001	CRHE-MW0032-045.0-03192012	3/19/12	11:00
J1201360-002	CRHE-MW0030-010.0-03192012	3/19/12	12:05
J1201360-003	CRHE-MW0023-065.0-03192012	3/19/12	14:40
J1201360-004	CRHE-MW0031-045.0-03192012	3/19/12	15:25
J1201360-005	CRHE-IW0020I-045.0-03192012	3/19/12	16:40
J1201360-006	CRHE-MW0039-030.0-03192012	3/19/12	17:39
J1201360-007	CRHE-MW0038-010.0-03192012	3/19/12	18:10
J1201360-008	EB01-03192012	3/19/12	15:30
J1201360-009	CRHE-IW0015I-040.0-03192012	3/19/12	18:10
J1201360-010	CRHE-MW0034-038.5-03202012	3/20/12	09:37
J1201360-011	CRHE-IW0019I-040.0-03202012	3/20/12	09:40
J1201360-012	CRHE-MW0033-048.5-03202012	3/20/12	10:17
J1201360-013	CRHE-IW0021I-045.0-03202012	3/20/12	11:23
J1201360-014	CRHE-MW0035-045.0-03202012	3/20/12	14:11
J1201360-015	CRHE-MW0028-040.0-03202012	3/20/12	14:20
J1201360-016	CRHE-MW0037-030.0-03202012	3/20/12	14:41
J1201360-017	CRHE-IW0017I-030.0-03202012	3/20/12	15:10
J1201360-018	CRHE-IW0014I-040.0-03212012	3/21/12	09:05
J1201360-019	CRHE-MW0029-045.0-03212012	3/21/12	11:00
J1201360-020	CRHE-MW0026-035.0-03212012	3/21/12	12:00
J1201360-021	CRHE-MW0022-065.0-03212012	3/21/12	15:05
J1201360-022	CRHE-MW0027-045.0-03212012	3/21/12	15:45
J1201360-023	CRHE-MW0024-010.0-03212012	3/21/12	17:50
J1201360-024	CRHE-MW0025-030.0-03212012	3/21/12	18:30
J1201360-025	CRHE-188849-IDW-03212012	3/21/12	16:15
J1201360-026	CRHE-188797-IDW-03212012	3/21/12	16:40
J1201360-027	CRHE-188842-IDW-03212012	3/21/12	16:45
J1201360-028	CRHE-188838-IDW-03212012	3/21/12	17:00
J1201360-029	Trip Blank	3/19/12	00:00
J1201360-030	CHRE-MW0036-010.0-03202012	3/20/12	15:21

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Columbia Analytical Services

Chain of Custody Documentation

9143 Philips Highway, Suite 200
Jacksonville, Florida 32256
Phone: (904) 739-2277 Fax (904) 739-2011
www.caslab.com

Columbia Analytical Services

www.caslab.com

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200, Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011

Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To: Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. Other

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	8260B (Full List VOC)	REMARKS
CRHE-MW0022-065.0-03212012		3/21/2012	1505	W	3		X	
CRHE-MW0023-065.0-03192012		3/19/2012	1440	W	3		X	
CRHE-MW0024-010.0-03212012		3/21/2012	1750	W	3		X	
CRHE-MW0025-030.0-03212012		3/21/2012	1830	W	3		X	
CRHE-MW0026-035.0-03212012		3/21/2012	1200	W	3		X	
CRHE-MW0027-045.0-03212012		3/21/2012	1545	W	3		X	
CRHE-MW0028-040.0-03202012		3/20/2012	1420	W	3		X	
CRHE-MW0029-045.0-03212012		3/21/2012	1100	W	3		X	
CRHE-MW0030-010.0-03192012		3/19/2012	1205	W	3		X	
CRHE-MW0031-045.0-03192012		3/19/2012	1525	W	3		X	

Special Instructions/Comments:

W = Water

NASA RIS KEDD → Data Deliverable

3.0°C F71

TURNAROUND REQUIREMENTS

___ RUSH (SURCHARGES APPLY)

1 STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

___ I. Results Only

___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. # ___

Bill to: Geosyntec

316 S. Baylen Street Ste. 201

Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Geosyntec	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Lauren Petty	Firm: CAS/ALS	Firm	Firm	Firm	Firm
Date/Time: 03/22/12/0530	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Columbia Analytical Services

www.caslab.com

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011 Page 2 of 3

Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	8260B (Full List VOC	REMARKS
						1		
CRHE-MW0032-045.0-03192012		3/19/2012	1100	W			X	
CRHE-MW0033-048 5-03202012		3/20/2012	1017	W			X	
CRHE-MW0034-038 5-03202012		3/20/2012	0937	W			X	
CRHE-MW0035-045 0-03202012		3/20/2012	1411	W			X	
CRHE-MW0036-010 0-03202012		3/20/2012	1521	W			X	
CRHE-MW0037-030.0-03202012		3/20/2012	1441	W			X	
CRHE-MW0038-010 0-03192012		3/19/2012	1810	W			X	
CRHE-MW0039-030 0-03192012		3/19/2012	1739	W			X	
CRHE-MW0014I-040 0-03212012		3/21/2012	0905	W			X	
CRHE-IW0015I-040 0-03192012		3/19/2012	1810	W			X	

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn Acetate; 6. MeOH; 7. NaHSO4; 8. Other

Special Instructions/Comments:

W = Water

Data Deliverable → NASA RIS KEDD

3.0 c T71

TURNAROUND REQUIREMENTS

RUSH (SURCHARGES APPLY)

STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

I. Results Only

II. Results + QC Summaries

III. Results + QC and Calibration Summaries

IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION

P.O. #

Bill to Geosyntec

316 S. Baylen Street Ste. 201

Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Lauren Petty	Printed Name: Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS (ALS)	Firm	Firm	Firm	Firm
Date/Time: 3/22/12 1253	Date/Time: 3.22.12 0930	Date/Time	Date/Time	Date/Time	Date/Time

Columbia Analytical Services

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011 Page 3 of 3

Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To. Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	8260B (Full List VOC	8260B (Full List VOC	8260B (Full List VOC	REMARKS
Preservative						1	0	6	
CRHE-IW0017I-030 0-03202012		3/20/2012	1510	W	3	X			
CRHE-IW0019I-040 0-03202012		3/20/2012	0940	W	3	X			
CRHE-IW0020I-045 0-03192012		3/19/2012	1640	W	3	X			
CRHE-IW0021I-045 0-03202012		3/20/2012	1123	W	3	X			
EB01-03192012		3/19/2012	1530	W	3	X			
CRHE-188849-IDW-03212012		3/21/2012	1615	S	4		3	1	
CRHE-188797-IDW-03212012		3/21/2012	1640	S	4		3	1	
CRHE-188842-IDW-03212012		3/21/2012	1645	S	4		3	1	
CRHE-188838-IDW-03212012		3/21/2012	1700	S	4		3	1	
Trip Blank		Lab Provided			2	X			

Preservative Key: 0 None; 1 HCL; 2 HNO3; 3 H2SO4; 4 NaOH; 5 Zn Acetate; 6 MeOH; 7 NaHSO4; 8. Other

Special Instructions/Comments:

W = Water
S = Soil

NASA RISKED → Data Deliverable
3.0°C TM

TURNAROUND REQUIREMENTS

RUSH (SURCHARGES APPLY)

STANDARD

PROJECT REQUIRED FAX DATE:

REQUIRED REPORT DATE:

REPORT REQUIREMENTS

I. Results Only

II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

III. Results + QC and Calibration Summaries

IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. #

Bill to: Geosyntec
316 S. Baylen Street Ste. 201
Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Lauren Petty	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS LAS	Firm	Firm	Firm	Firm
Date/Time: 3/22/12/0530	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR # J1201360
CAS Contact

Project Name: KSC-CRHE	Project Number: FR1681
Project Manager: Bill Johnson	Email Address: bjohnson@geosyntec.com
Company/Address: 316 S. Baylen Street, Suite 201, Pensacola, FL 32502	
Phone #: 850-477-6547	FAX#: 850-477-6707
Sampler's Signature: [signature]	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number an [redacted]

PRESERVATIVE: HCl

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	6200 (VOH)
CRHE-MW0032-03192012		3/19/12	1100	W	3	✓
CRHE-MW0030-03192012		3/19/12	1205			
CRHE-MW0023-03192012			1440			
CRHE-MW0031-03192012			1525			
CRHE-IWW0020I-03192012			1640			
CRHE-MW0039-03192012			1739			
CRHE-MW0036-03192012			1810			
EB01-03192012		↓	1530			✓
CRHE-IW0015I-03192012		3/19/12	1910			
CRHE-MW0034-03202012		3/20/12	0937	↓	↓	↓

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

W = Water

Will email Report Requirements 3/22.

See QAPP ☐ 3.0°C T71

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO: Geosyntec
316 S Baylen St, Ste 201
Pensacola, FL 32502

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature [signature]	Signature	Signature	Signature	Signature
Printed Name	Printed Name C Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm CAS/ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 2 OF 3

SR # 31201360
CAS Contact

Project Name: KSC - CRHE	Project Number: FR1681
Project Manager: Jill Johnson	Email Address: JJohnson@geosyntec.com
Company/Address: 316 S. Baylen Street, Ste 201, Pensacola, FL 32502	
Phone #: 850-477-6547	FAX#: 850-477-6707
Sampler's Signature:	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number a [redacted]

PRESERVATIVE: 1

NUMBER OF CONTAINERS: 3

8260 (VOA)

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	REMARKS/ ALTERNATE DESCRIPTION
CRHE-IW0019I-03202012		3/20/12	0940	W	
CRHE-MW0033-03202012		"	1017	"	
CRHE-~~MW~~IW0021I-03202012			1123		
CRHE-MW0035-03202012			1411		
CRHE-MW0028-03202012			1420		
CRHE-MW0037-03202012			1441		
CRHE-IW0017I-03202012			1510		
CRHE-IW0014I-03202012		3/21/12	0905		
CRHE-MW0029-03202012			1100		
CRHE-MW0026-03212012			1200		

SPECIAL INSTRUCTIONS/COMMENTS

WE Water

See QAPP ☐ 3.0°C T71

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE:
REQUESTED REPORT DATE:

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Speicalized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
Sue pay

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
2					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm CAS/ACS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 3 OF 3

SR # 5120860

CAS Contact

Project Name: KSC - CRHE	Project Number: FR11681
Project Manager: Jill Johnson	Email Address: JJohnson@geosyntec.com
Company/Address: 316 S. Baylen Street Ste. 201, Pensacola, FL 32502	
Phone #: 805-477-6547	FAX#: 850-477-6707
Sampler's Signature	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 0 6

NUMBER OF CONTAINERS

8260 (VOA)
8260 (VOA)
8260 (VOA)

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX					REMARKS/ ALTERNATE DESCRIPTION
CRHE-MW0022-032120 12		3/21/12	1505	W	3	X			
CRHE-MW0027-032120 12			1545						
CRHE-MW0024-032120 12			1750						
CRHE-MW0025-032120 12			~~1825~~ 1830						
~~CRHE-IDW-188849 MP~~				~~SP~~					
CRHE-188849-IDW-032120 12			1615	S	4		3	1	
CRHE-188797-IDW-032120 12			1640				3	1	
CRHE-188842-IDW-032120 12			1645				3	1	
CRHE-188838-IDW-032120 12			1700				3	1	
TRIP Blank		LAB Provided		W	2	2			

SPECIAL INSTRUCTIONS/COMMENTS

CRHE-MW0036-032020 12 3/20/12 1521 W 3

W = Water

S = Soil

* Added per client SL 3/23/12

3.0°C T71

See QAPP ☐

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

X STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Specialized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO: See pg 1

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
1 3					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name: C Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: CAS/ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 3.22.12 0930	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services™

Cooler Receipt Form

Client: Geosyntec Service Request #: J1201360

Project: KSC - CRHE

Cooler received on 3.22.12 and opened on 3.22.12 by GB

COURIER: CAS UPS FEDEX (Client) Other _____ Airbill #_____

1	Were custody seals on outside of cooler?	(Yes)	No
	If yes, how many and where?	#: 1 (on lid)	other
2	Were seals intact and signature and date correct?	(Yes)	No N/A
3	Were custody papers properly filled out?	(Yes)	No N/A
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	3.0	
5	Thermometer ID	T71	
6	Temperature Blank Present?	(Yes)	No
7	Were Ice or Ice Packs present	(Ice)	Ice Packs No
8	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No N/A
9	Type of packing material present	Netting (Vial Holder) (Bubble Wrap)	
		Paper Styrofoam Other N/A	
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No N/A
11	Did all bottle labels and tags agree with custody papers?	Yes (No)	N/A
12	Were the correct bottles used for the tests indicated?	(Yes)	No N/A
13	Were all of the preserved bottles received with the appropriate preservative?	Yes No (N/A)	
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2		
	Preservative additions noted below		
14	Were all samples received within analysis holding times?	(Yes)	No N/A
15	Were all VOA vials free of air bubbles? If present, note below	(Yes)	No N/A
16	Where did the bottles originate?	(CAS)	Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time
			(1)	

Additional comments and/or explanation of all discrepancies noted above: 1 of 3 volatile vial label has the ID as MW0031-03192012 for MW0032-03192012. (2) Sample date & time matches Sample time on labels is 1832 for MW0038-03192012. (3) Sample ID on labels is

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1201360

Date: 3.22.12 Initials: GB

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.	
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.	
Preserve	N/A	HCl	Na2 S2O3	N/A	HCl	H2SO4	HNO3	N/A	H2SO4	HNO3	ZnAc2/ NaOH	NaOH	N/A	HNO3	N/A	HCl	H2SO4	HNO3	N/A	N/A	HNO3	N/A	HCl	H2SO4	N/A	N/A	N/A	N/A	Na2 S2O3	N/A	N/A	
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sample #	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		-	
-1		3																														-1
-2																																-2
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-25	3																								1							-25
-26	3																								1							-26
-27	3																								1							-27
-28	3																								1							-28
-29		4	Trip Blank																													-29
-30																																-30
-31																																-31
-32																																-32
-33																																-33
-34																																-34
-35																																-35
-36																																-36
-37																																-37
-38																																-38
-39																																-39
-40																																-40

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

Summary Package

9143 Philips Highway, Suite 200
Jacksonville, Florida 32256
Phone: (904) 739-2277 Fax (904) 739-2011
www.caslab.com

Organic Analysis:
Volatile Organic Compounds by GC/MS

Summary Package

Sample and QC Results

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
CRHE-MW0032-045.0-03192012	J1201360-001	03/19/2012	03/22/2012
CRHE-MW0030-010.0-03192012	J1201360-002	03/19/2012	03/22/2012
CRHE-MW0023-065.0-03192012	J1201360-003	03/19/2012	03/22/2012
CRHE-MW0031-045.0-03192012	J1201360-004	03/19/2012	03/22/2012
CRHE-IW0020I-045.0-03192012	J1201360-005	03/19/2012	03/22/2012
CRHE-MW0039-030.0-03192012	J1201360-006	03/19/2012	03/22/2012
CRHE-MW0038-010.0-03192012	J1201360-007	03/19/2012	03/22/2012
EB01-03192012	J1201360-008	03/19/2012	03/22/2012
CRHE-IW0015I-040.0-03192012	J1201360-009	03/19/2012	03/22/2012
CRHE-MW0034-038.5-03202012	J1201360-010	03/20/2012	03/22/2012
CRHE-IW0019I-040.0-03202012	J1201360-011	03/20/2012	03/22/2012
CRHE-MW0033-048.5-03202012	J1201360-012	03/20/2012	03/22/2012
CRHE-IW0021I-045.0-03202012	J1201360-013	03/20/2012	03/22/2012
CRHE-MW0035-045.0-03202012	J1201360-014	03/20/2012	03/22/2012
CRHE-MW0028-040.0-03202012	J1201360-015	03/20/2012	03/22/2012
CRHE-MW0037-030.0-03202012	J1201360-016	03/20/2012	03/22/2012
CRHE-IW0017I-030.0-03202012	J1201360-017	03/20/2012	03/22/2012
CRHE-IW0014I-040.0-03212012	J1201360-018	03/21/2012	03/22/2012
CRHE-MW0029-045.0-03212012	J1201360-019	03/21/2012	03/22/2012
CRHE-MW0026-035.0-03212012	J1201360-020	03/21/2012	03/22/2012
CRHE-MW0022-065.0-03212012	J1201360-021	03/21/2012	03/22/2012
CRHE-MW0027-045.0-03212012	J1201360-022	03/21/2012	03/22/2012
CRHE-MW0024-010.0-03212012	J1201360-023	03/21/2012	03/22/2012
CRHE-MW0025-030.0-03212012	J1201360-024	03/21/2012	03/22/2012
CRHE-188849-IDW-03212012	J1201360-025	03/21/2012	03/22/2012
CRHE-188797-IDW-03212012	J1201360-026	03/21/2012	03/22/2012
CRHE-188842-IDW-03212012	J1201360-027	03/21/2012	03/22/2012
CRHE-188838-IDW-03212012	J1201360-028	03/21/2012	03/22/2012
Trip Blank	J1201360-029	03/19/2012	03/22/2012
CHRE-MW0036-010.0-03202012	J1201360-030	03/20/2012	03/22/2012

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: James Nicholson

Date: 4/4/12 Title: Organics Manager

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.54**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**0.57**	I	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.62**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**6.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**13**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**0.31**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.30**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.71**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**8.2**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**83**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	5.9	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**0.70**	I	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.46**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.21**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**59**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**6.0**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**200**		10	2.2	10	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.49**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**33**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**0.92**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**79**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.49**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**0.96**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.50**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.43**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**92**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	113	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	97	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**2.0**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.21**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**76**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	27		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.36**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**3.4**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**12**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.2**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**140**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**150**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	101	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**4.1**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.48**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.3**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**1000**		20	7.2	20	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.3**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.25**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**18**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**530**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	97	86-112	03/30/12	Acceptable
Toluene-d8	102	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.92**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**9.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.42**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**99**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**3.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**1.4**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**0.52**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**33**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	96	86-112	03/30/12	Acceptable
Toluene-d8	103	88-115	03/30/12	Acceptable

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.98**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.26**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.55**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.23**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.44**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.59**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.31**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**4.2**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**3.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.55**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**4.1**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**180**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	110	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.2**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.44**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**8.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.20**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**19**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.32**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.52**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**90**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**4.0**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**3.6**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	99	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**1.4**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**1.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**420**		10	3.6	10	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**13**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**140**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**100**		10	2.2	10	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	112	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	100	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**3.5**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**9.1**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**6.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**0.41**	I	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**3600**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**0.22**	I	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.36**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**34**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1000**		100	16	100	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**2000**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	108	86-113	04/02/12	Acceptable
Dibromofluoromethane	95	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**0.51**	I	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**1.5**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Collected:**	03/21/2012
Sample Matrix:	Water	**Date Received:**	03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name:	CRHE-MW0022-065.0-03212012	**Units:**	ug/L
Lab Code:	J1201360-021	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.22**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	99	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**0.96**	I	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**2.7**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**790**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.22**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**14**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**1700**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**11**		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**0.74**	I	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**13**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**2.2**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**15**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**9700**		200	72	200	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**0.41**	I	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**75**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.60**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**7600**		200	44	200	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	92	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/02/12	Acceptable
Dibromofluoromethane	97	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	100	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	95	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	105	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	103	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	99	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.24	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.6	0.33	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.6	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.44	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	28	1.0	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.62	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.65	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	140	3.9	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.6	0.077	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	12	0.46	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.6	0.26	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.6	0.30	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.28	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.25	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.6	0.070	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**2.0**	I	56	0.17	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.6	0.082	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.6	0.56	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.6	0.20	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	23	0.29	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	23	0.28	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.6	0.27	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	102	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	22	I	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	103	64-135	03/22/12	Acceptable
Dibromofluoromethane	91	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.8	0.25	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.8	0.34	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.8	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.21	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.45	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	29	1.1	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.64	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.67	1	03/22/12	03/22/12	JWG1200305	
Acetone	**17**	I	150	4.1	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.8	0.080	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**2.1**	I	12	0.48	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.8	0.27	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.8	0.32	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.29	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.26	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.8	0.073	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	58	0.18	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.8	0.085	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.8	0.58	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.8	0.21	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	24	0.30	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	24	0.29	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.8	0.28	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	116	64-135	03/22/12	Acceptable
Dibromofluoromethane	99	74-125	03/22/12	Acceptable
Toluene-d8	108	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	95	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	102	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-MW0032-045.0-03192012	J1201360-001	97	109	99	98
CRHE-MW0030-010.0-03192012	J1201360-002	98	106	98	101
CRHE-MW0023-065.0-03192012	J1201360-003	100	107	99	96
CRHE-MW0031-045.0-03192012	J1201360-004	97	106	100	98
CRHE-IW0020I-045.0-03192012	J1201360-005	96	107	100	99
CRHE-MW0039-030.0-03192012	J1201360-006	99	113	99	97
CRHE-MW0038-010.0-03192012	J1201360-007	100	109	100	100
EB01-03192012	J1201360-008	97	106	99	101
CRHE-IW0015I-040.0-03192012	J1201360-009	101	107	99	100
CRHE-MW0034-038.5-03202012	J1201360-010	99	109	101	98
CRHE-IW0019I-040.0-03202012	J1201360-011	98	105	97	102
CRHE-MW0033-048.5-03202012	J1201360-012	96	109	96	103
CRHE-IW0021I-045.0-03202012	J1201360-013	99	109	99	99
CRHE-MW0035-045.0-03202012	J1201360-014	99	108	98	96
CRHE-MW0028-040.0-03202012	J1201360-015	95	110	98	98
CRHE-MW0037-030.0-03202012	J1201360-016	97	107	99	98
CRHE-IW0017I-030.0-03202012	J1201360-017	97	108	99	100
CRHE-IW0014I-040.0-03212012	J1201360-018	94	107	97	99
CRHE-MW0029-045.0-03212012	J1201360-019	98	112	99	100
CRHE-MW0026-035.0-03212012	J1201360-020	99	108	95	96
CRHE-MW0022-065.0-03212012	J1201360-021	99	107	99	98
CRHE-MW0027-045.0-03212012	J1201360-022	96	107	98	96
CRHE-MW0024-010.0-03212012	J1201360-023	98	107	99	98
CRHE-MW0025-030.0-03212012	J1201360-024	97	111	92	98
Trip Blank	J1201360-029	94	111	97	96
CHRE-MW0036-010.0-03202012	J1201360-030	97	111	97	100
Method Blank	JWG1200321-2	98	105	100	95
Method Blank	JWG1200325-2	99	105	99	98
Method Blank	JWG1200333-4	96	103	97	96
Lab Control Sample	JWG1200321-1	99	107	99	100
Lab Control Sample	JWG1200325-1	94	104	98	97
Lab Control Sample	JWG1200333-3	95	109	97	96

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	72-121
Sur2 = 4-Bromofluorobenzene	86-113
Sur3 = Dibromofluoromethane	86-112
Sur4 = Toluene-d8	88-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-188849-IDW-03212012	J1201360-025	94	99	96	101
CRHE-188797-IDW-03212012	J1201360-026	92	102	96	105
CRHE-188842-IDW-03212012	J1201360-027	90	103	91	105
CRHE-188838-IDW-03212012	J1201360-028	94	116	99	108
Method Blank	JWG1200305-2	94	95	96	102
Lab Control Sample	JWG1200305-1	94	97	98	101

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	80-120
Sur2 =	4-Bromofluorobenzene	64-135
Sur3 =	Dibromofluoromethane	74-125
Sur4 =	Toluene-d8	46-156

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-02.D
Instrument ID: MS52
Analysis Method: 8260B

Lab Code: JWG1200306-2
Analysis Lot: JWG1200306

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	53,457	11.60	47,863	9.16	122,997	6.17
	Upper Limit ==>	106,914	12.10	95,726	9.66	245,994	6.67
	Lower Limit ==>	26,729	11.10	23,932	8.66	61,499	5.67
	ICAL Result ==>	48,766	11.60	43,592	9.16	110,750	6.17
Associated Analyses							
Lab Control Sample	JWG1200305-1	52,658	11.60	48,614	9.16	125,564	6.17
Method Blank	JWG1200305-2	50,853	11.59	47,975	9.16	125,218	6.17
CRHE-188849-IDW-03212012	J1201360-025	45,168	11.60	46,360	9.16	121,432	6.17
CRHE-188797-IDW-03212012	J1201360-026	40,555	11.60	43,358	9.16	116,772	6.17
CRHE-188842-IDW-03212012	J1201360-027	40,415	11.60	42,767	9.17	117,887	6.17
CRHE-188838-IDW-03212012	J1201360-028	35,955	11.60	42,626	9.16	118,248	6.18

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200322-2
Analysis Lot: JWG1200322

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	328,039	11.12	413,475	8.80	1,184,883	5.51
	Upper Limit ==>	656,078	11.62	826,950	9.30	2,369,766	6.01
	Lower Limit ==>	164,020	10.62	206,738	8.30	592,442	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200321-1	318,654	11.12	397,222	8.80	1,171,291	5.51
Method Blank	JWG1200321-2	337,907	11.13	403,441	8.80	1,145,808	5.51
CRHE-MW0032-045.0-03192012	J1201360-001	315,754	11.13	399,126	8.80	1,148,047	5.51
CRHE-MW0030-010.0-03192012	J1201360-002	323,166	11.13	392,864	8.80	1,177,874	5.51
CRHE-MW0023-065.0-03192012	J1201360-003	322,551	11.13	384,128	8.80	1,104,427	5.52
CRHE-MW0031-045.0-03192012	J1201360-004	331,420	11.13	396,550	8.80	1,156,645	5.51
CRHE-IW0020I-045.0-03192012	J1201360-005	322,585	11.13	393,897	8.80	1,164,407	5.51
CRHE-MW0039-030.0-03192012	J1201360-006	319,516	11.13	401,946	8.80	1,172,242	5.51
CRHE-MW0038-010.0-03192012	J1201360-007	327,430	11.13	405,589	8.80	1,173,486	5.51
EB01-03192012	J1201360-008	330,521	11.13	389,632	8.80	1,146,764	5.51
CRHE-IW0015I-040.0-03192012	J1201360-009	332,367	11.13	389,217	8.80	1,147,109	5.52
CRHE-MW0034-038.5-03202012	J1201360-010	321,006	11.13	397,996	8.80	1,125,602	5.52
CRHE-IW0019I-040.0-03202012	J1201360-011	316,893	11.13	382,659	8.80	1,133,176	5.51
CRHE-MW0033-048.5-03202012	J1201360-012	324,878	11.13	388,136	8.80	1,169,094	5.52
CRHE-IW0021I-045.0-03202012	J1201360-013	320,327	11.13	393,071	8.80	1,149,686	5.51
CRHE-MW0035-045.0-03202012	J1201360-014	330,706	11.12	409,470	8.80	1,174,443	5.52
CRHE-MW0028-040.0-03202012	J1201360-015	319,532	11.13	409,711	8.80	1,202,891	5.51
CRHE-MW0037-030.0-03202012	J1201360-016	322,399	11.13	400,508	8.80	1,144,939	5.51
CRHE-IW0017I-030.0-03202012	J1201360-017	326,036	11.12	400,878	8.80	1,158,793	5.51

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 09:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200326-2
Analysis Lot: JWG1200326

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	338,282	11.13	419,066	8.80	1,182,437	5.51
	Upper Limit ==>	676,564	11.63	838,132	9.30	2,364,874	6.01
	Lower Limit ==>	169,141	10.63	209,533	8.30	591,219	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200325-1	322,206	11.13	386,918	8.80	1,106,267	5.51
Method Blank	JWG1200325-2	322,051	11.13	383,241	8.80	1,093,788	5.51
Trip Blank	J1201360-029	314,454	11.13	402,969	8.80	1,172,678	5.51
CRHE-MW0032-045.0-03192012D	J1201360-001	317,812	11.13	379,377	8.80	1,119,988	5.51
CRHE-MW0031-045.0-03192012D	J1201360-004	322,770	11.13	395,883	8.80	1,159,224	5.51
CRHE-IW0020I-045.0-03192012D	J1201360-005	319,432	11.13	390,271	8.80	1,120,582	5.51
CRHE-MW0039-030.0-03192012D	J1201360-006	325,142	11.13	389,370	8.80	1,108,624	5.51
CRHE-MW0034-038.5-03202012D	J1201360-010	327,008	11.13	395,803	8.80	1,096,028	5.51
CRHE-IW0019I-040.0-03202012D	J1201360-011	319,532	11.13	392,191	8.80	1,116,694	5.51
CRHE-MW0035-045.0-03202012D	J1201360-014	317,749	11.13	383,466	8.80	1,119,903	5.52
CRHE-MW0028-040.0-03202012D	J1201360-015	320,292	11.13	385,204	8.80	1,151,728	5.51
CRHE-IW0017I-030.0-03202012D	J1201360-017	313,536	11.13	395,840	8.80	1,123,689	5.51
CRHE-MW0027-045.0-03212012	J1201360-022	316,218	11.13	402,165	8.80	1,116,092	5.52
CRHE-MW0022-065.0-03212012	J1201360-021	332,100	11.13	405,929	8.80	1,179,725	5.52
CRHE-MW0026-035.0-03212012	J1201360-020	326,026	11.13	414,330	8.80	1,170,714	5.52
CRHE-MW0029-045.0-03212012	J1201360-019	314,676	11.13	399,293	8.80	1,157,084	5.52
CRHE-IW0014I-040.0-03212012	J1201360-018	324,993	11.13	393,830	8.80	1,133,953	5.52
CRHE-MW0024-010.0-03212012	J1201360-023	318,409	11.13	384,678	8.80	1,105,383	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 11:53

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-03.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200334-2
Analysis Lot: JWG1200334

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	317,277	11.13	383,361	8.80	1,079,939	5.51
	Upper Limit ==>	634,554	11.63	766,722	9.30	2,159,878	6.01
	Lower Limit ==>	158,639	10.63	191,681	8.30	539,970	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200333-3	309,433	11.13	402,331	8.80	1,130,474	5.51
Method Blank	JWG1200333-4	316,138	11.13	389,420	8.80	1,095,457	5.51
CRHE-IW0014I-040.0-03212012RI	J1201360-018	316,659	11.13	370,802	8.80	1,091,211	5.51
CRHE-MW0022-065.0-03212012R	J1201360-021	315,576	11.13	390,002	8.80	1,108,138	5.51
CRHE-MW0029-045.0-03212012D	J1201360-019	301,400	11.13	375,955	8.80	1,085,571	5.51
CRHE-MW0026-035.0-03212012D	J1201360-020	304,045	11.12	375,196	8.80	1,067,834	5.51
CRHE-MW0027-045.0-03212012D	J1201360-022	304,830	11.12	381,443	8.80	1,056,074	5.51
CHRE-MW0036-010.0-03202012	J1201360-030	307,096	11.13	380,864	8.80	1,120,196	5.51
CRHE-MW0025-030.0-03212012	J1201360-024	305,472	11.13	384,814	8.80	1,106,582	5.51
CRHE-MW0025-030.0-03212012D	J1201360-024	313,276	11.13	402,002	8.80	1,159,827	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.8	20.0	99	77-118
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	70-122
1,1,2,2-Tetrachloroethane	20.3	20.0	102	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	20.5	20.0	103	79-117
1,1-Dichloroethene	23.0	20.0	115	72-128
1,2,3-Trichlorobenzene	20.7	20.0	104	62-136
1,2,4-Trichlorobenzene	19.2	20.0	96	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.5	20.0	82	60-122
1,2-Dibromoethane (EDB)	18.7	20.0	93	76-118
1,2-Dichlorobenzene	20.5	20.0	103	81-115
1,2-Dichloroethane (EDC)	19.9	20.0	100	70-117
1,2-Dichloropropane	21.6	20.0	108	79-117
1,3-Dichlorobenzene	21.5	20.0	107	82-116
1,4-Dichlorobenzene	20.9	20.0	105	82-115
2-Butanone (MEK)	102	100	102	62-138
2-Hexanone	93.2	100	93	74-127
4-Methyl-2-pentanone (MIBK)	96.1	100	96	77-120
Acetone	88.3	100	88	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.6	20.0	98	78-118
Bromodichloromethane	20.2	20.0	101	75-118
Bromoform	19.2	20.0	96	63-121
Bromomethane	19.1	20.0	95	31-153
Carbon Disulfide	119	100	119	72-128
Carbon Tetrachloride	18.3	20.0	91	67-124
Chlorobenzene	20.7	20.0	103	83-118
Chloroethane	21.5	20.0	107	68-132
Chloroform	19.6	20.0	98	77-116
Chloromethane	24.8	20.0	124	60-128
cis-1,2-Dichloroethene	21.5	20.0	108	78-117
cis-1,3-Dichloropropene	20.9	20.0	105	80-119
Cyclohexane	20.3	20.0	102	75-124
Dibromochloromethane	19.4	20.0	97	74-121
Dichlorodifluoromethane	22.1	20.0	111	49-132
Ethylbenzene	21.8	20.0	109	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

	Lab Control Sample JWG1200321-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.0	20.0	120 *	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	19.4	20.0	97	50-137
Methyl tert-Butyl Ether	20.0	20.0	100	73-118
Methylene Chloride	20.5	20.0	103	75-123
o-Xylene	21.3	20.0	106	80-119
Styrene	20.9	20.0	105	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	20.9	20.0	104	75-121
trans-1,3-Dichloropropene	19.7	20.0	98	76-118
Trichloroethene (TCE)	20.6	20.0	103	78-122
Trichlorofluoromethane	20.3	20.0	101	58-134
Trichlorotrifluoroethane	21.4	20.0	107	77-128
Vinyl Chloride	21.4	20.0	107	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.4	20.0	97	77-118
1,1,1-Trichloroethane (TCA)	20.2	20.0	101	70-122
1,1,2,2-Tetrachloroethane	21.1	20.0	106	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	21.2	20.0	106	79-117
1,1-Dichloroethene	23.6	20.0	118	72-128
1,2,3-Trichlorobenzene	19.5	20.0	98	62-136
1,2,4-Trichlorobenzene	18.7	20.0	93	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.7	20.0	83	60-122
1,2-Dibromoethane (EDB)	19.1	20.0	96	76-118
1,2-Dichlorobenzene	20.3	20.0	101	81-115
1,2-Dichloroethane (EDC)	19.8	20.0	99	70-117
1,2-Dichloropropane	21.5	20.0	108	79-117
1,3-Dichlorobenzene	21.0	20.0	105	82-116
1,4-Dichlorobenzene	21.0	20.0	105	82-115
2-Butanone (MEK)	99.8	100	100	62-138
2-Hexanone	94.3	100	94	74-127
4-Methyl-2-pentanone (MIBK)	95.0	100	95	77-120
Acetone	86.2	100	86	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.4	20.0	97	78-118
Bromodichloromethane	20.9	20.0	104	75-118
Bromoform	20.2	20.0	101	63-121
Bromomethane	19.4	20.0	97	31-153
Carbon Disulfide	121	100	121	72-128
Carbon Tetrachloride	19.3	20.0	96	67-124
Chlorobenzene	20.3	20.0	101	83-118
Chloroethane	22.3	20.0	112	68-132
Chloroform	20.5	20.0	102	77-116
Chloromethane	25.2	20.0	126	60-128
cis-1,2-Dichloroethene	21.7	20.0	108	78-117
cis-1,3-Dichloropropene	20.7	20.0	104	80-119
Cyclohexane	20.8	20.0	104	75-124
Dibromochloromethane	19.5	20.0	97	74-121
Dichlorodifluoromethane	22.3	20.0	111	49-132
Ethylbenzene	21.1	20.0	105	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	23.8	20.0	119	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	18.4	20.0	92	50-137
Methyl tert-Butyl Ether	20.8	20.0	104	73-118
Methylene Chloride	21.2	20.0	106	75-123
o-Xylene	21.4	20.0	107	80-119
Styrene	21.2	20.0	106	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	21.2	20.0	106	75-121
trans-1,3-Dichloropropene	19.9	20.0	100	76-118
Trichloroethene (TCE)	20.8	20.0	104	78-122
Trichlorofluoromethane	21.2	20.0	106	58-134
Trichlorotrifluoroethane	22.4	20.0	112	77-128
Vinyl Chloride	22.0	20.0	110	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	77-118
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	70-122
1,1,2,2-Tetrachloroethane	19.6	20.0	98	66-135
1,1,2-Trichloroethane	19.4	20.0	97	75-122
1,1-Dichloroethane	20.4	20.0	102	79-117
1,1-Dichloroethene	22.4	20.0	112	72-128
1,2,3-Trichlorobenzene	19.2	20.0	96	62-136
1,2,4-Trichlorobenzene	17.9	20.0	89	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.1	20.0	81	60-122
1,2-Dibromoethane (EDB)	18.2	20.0	91	76-118
1,2-Dichlorobenzene	19.6	20.0	98	81-115
1,2-Dichloroethane (EDC)	20.0	20.0	100	70-117
1,2-Dichloropropane	21.1	20.0	105	79-117
1,3-Dichlorobenzene	20.9	20.0	105	82-116
1,4-Dichlorobenzene	20.4	20.0	102	82-115
2-Butanone (MEK)	98.5	100	99	62-138
2-Hexanone	91.0	100	91	74-127
4-Methyl-2-pentanone (MIBK)	92.1	100	92	77-120
Acetone	90.0	100	90	42-161
Benzene	20.5	20.0	102	80-117
Bromochloromethane	18.7	20.0	94	78-118
Bromodichloromethane	20.6	20.0	103	75-118
Bromoform	18.3	20.0	92	63-121
Bromomethane	17.8	20.0	89	31-153
Carbon Disulfide	114	100	114	72-128
Carbon Tetrachloride	17.7	20.0	88	67-124
Chlorobenzene	19.7	20.0	98	83-118
Chloroethane	19.9	20.0	100	68-132
Chloroform	19.7	20.0	98	77-116
Chloromethane	21.6	20.0	108	60-128
cis-1,2-Dichloroethene	20.9	20.0	104	78-117
cis-1,3-Dichloropropene	19.6	20.0	98	80-119
Cyclohexane	19.8	20.0	99	75-124
Dibromochloromethane	18.4	20.0	92	74-121
Dichlorodifluoromethane	19.8	20.0	99	49-132
Ethylbenzene	20.8	20.0	104	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

	Lab Control Sample JWG1200333-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.1	20.0	120 *	78-119
m,p-Xylenes	41.0	40.0	102	79-122
Methyl Acetate	19.1	20.0	95	50-137
Methyl tert-Butyl Ether	19.8	20.0	99	73-118
Methylene Chloride	20.0	20.0	100	75-123
o-Xylene	20.2	20.0	101	80-119
Styrene	19.9	20.0	99	80-121
Tetrachloroethene (PCE)	18.9	20.0	94	75-126
Toluene	20.0	20.0	100	52-152
trans-1,2-Dichloroethene	20.1	20.0	100	75-121
trans-1,3-Dichloropropene	19.3	20.0	96	76-118
Trichloroethene (TCE)	20.3	20.0	101	78-122
Trichlorofluoromethane	18.9	20.0	95	58-134
Trichlorotrifluoroethane	20.0	20.0	100	77-128
Vinyl Chloride	19.6	20.0	98	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.1	20.0	90	71-124
1,1,1-Trichloroethane (TCA)	17.4	20.0	87	72-131
1,1,2,2-Tetrachloroethane	17.4	20.0	87	51-136
1,1,2-Trichloroethane	18.4	20.0	92	74-113
1,1-Dichloroethane	18.3	20.0	92	74-124
1,1-Dichloroethene	16.0	20.0	80	67-128
1,2,3-Trichlorobenzene	18.9	20.0	94	64-129
1,2,4-Trichlorobenzene	18.7	20.0	93	61-135
1,2-Dibromo-3-chloropropane (DBCP)	17.4	20.0	87	54-129
1,2-Dibromoethane (EDB)	18.2	20.0	91	74-114
1,2-Dichlorobenzene	18.6	20.0	93	74-111
1,2-Dichloroethane (EDC)	17.7	20.0	88	74-120
1,2-Dichloropropane	18.3	20.0	91	77-119
1,3-Dichlorobenzene	18.5	20.0	93	74-114
1,4-Dichlorobenzene	18.7	20.0	93	72-112
2-Butanone (MEK)	87.5	100	87	55-136
2-Hexanone	88.0	100	88	60-127
4-Methyl-2-pentanone (MIBK)	90.1	100	90	64-122
Acetone	83.4	100	83	30-164
Benzene	18.2	20.0	91	76-123
Bromochloromethane	19.0	20.0	95	75-124
Bromodichloromethane	17.1	20.0	85	74-124
Bromoform	16.8	20.0	84	58-126
Bromomethane	18.5	20.0	92	25-175
Carbon Disulfide	110	100	110	62-134
Carbon Tetrachloride	16.0	20.0	80	68-134
Chlorobenzene	19.0	20.0	95	74-116
Chloroethane	17.5	20.0	88	64-131
Chloroform	17.1	20.0	86	75-120
Chloromethane	16.6	20.0	83	59-138
cis-1,2-Dichloroethene	18.4	20.0	92	74-122
cis-1,3-Dichloropropene	18.5	20.0	93	75-115
Cyclohexane	19.3	20.0	96	70-127
Dibromochloromethane	16.7	20.0	83	67-123
Dichlorodifluoromethane	17.1	20.0	86	51-150
Ethylbenzene	18.9	20.0	95	71-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	20.9	20.0	105	67-124
m,p-Xylenes	38.0	40.0	95	71-122
Methyl Acetate	16.6	20.0	83	25-160
Methyl tert-Butyl Ether	18.1	20.0	90	72-121
Methylene Chloride	16.6	20.0	83	60-140
o-Xylene	18.3	20.0	92	71-120
Styrene	19.1	20.0	95	70-122
Tetrachloroethene (PCE)	18.9	20.0	95	69-124
Toluene	18.7	20.0	93	72-118
trans-1,2-Dichloroethene	17.6	20.0	88	71-127
trans-1,3-Dichloropropene	17.6	20.0	88	73-115
Trichloroethene (TCE)	18.4	20.0	92	70-129
Trichlorofluoromethane	17.4	20.0	87	67-129
Trichlorotrifluoroethane	17.7	20.0	89	66-131
Vinyl Chloride	18.9	20.0	95	62-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 13:10

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-06.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/12	11:42
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	04/02/2012
Sample Matrix:	Water	**Date Analyzed:**	04/02/2012
		Time Analyzed:	11:20

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS53
Lab Code:	JWG1200325-2	**File ID:**	J:\MS53\DATA\MS53-120402\0402-06.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200325

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/12	09:51
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 13:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-07.D

Level: Low
Extraction Lot: JWG1200333

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/12	12:25
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/22/2012
Sample Matrix:	Soil	**Date Analyzed:**	03/22/2012
		Time Analyzed:	11:28

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS52
Lab Code:	JWG1200305-2	**File ID:**	J:\MS52\DATA\MS52-120322\0322-05.D
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200305

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/12	10:14
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 11:42

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/12	13:10
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 09:51

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/12	11:20
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 12:25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-04.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200333

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/12	13:53
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012
Time Analyzed: 10:14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Extraction Method: EPA 5035
Analysis Method: 8260B

Instrument ID: MS52
File ID: J:\MS52\DATA\MS52-120322\0322-03.D

Level: Low
Extraction Lot: JWG1200305

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/12	11:28
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:17

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-01.D
Instrument ID: MS52
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200306

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.1	3056	PASS
75	95	30	60	44.7	9053	PASS
95	95	100	100	100.0	20275	PASS
96	95	5	9	6.8	1378	PASS
173	174	0	2	0.4	78	PASS
174	95	50	120	93.5	18957	PASS
175	174	5	9	7.2	1370	PASS
176	174	95	101	98.9	18742	PASS
177	176	5	9	6.5	1226	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200306-2	J:\MS52\DATA\MS52-120322\0322-02.D	03/22/2012	09:45	
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/2012	10:14	
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/2012	11:28	
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/2012	18:20	
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/2012	18:48	
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/2012	19:17	
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/2012	19:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 10:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200322

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.2	25176	PASS
75	95	30	60	33.7	55912	PASS
95	95	100	100	100.0	166080	PASS
96	95	5	9	6.4	10595	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.7	150592	PASS
175	174	5	9	7.5	11247	PASS
176	174	95	101	95.4	143616	PASS
177	176	5	9	6.0	8649	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200322-2	J:\MS53\DATA\MS53-120330\0330-02.D	03/30/2012	11:12	
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/2012	11:42	
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/2012	13:10	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/2012	13:40	
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/2012	14:10	
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/2012	14:40	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/2012	15:09	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/2012	15:39	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/2012	16:09	
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/2012	16:39	
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/2012	17:09	
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/2012	17:39	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/2012	18:09	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/2012	18:39	
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/2012	19:09	
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/2012	19:39	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/2012	20:09	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/2012	20:39	
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/2012	21:08	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/2012	21:38	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 08:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200326

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	37064	PASS
75	95	30	60	35.7	80421	PASS
95	95	100	100	100.0	225429	PASS
96	95	5	9	6.5	14647	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.9	180139	PASS
175	174	5	9	7.7	13885	PASS
176	174	95	101	96.2	173248	PASS
177	176	5	9	6.3	10928	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200326-2	J:\MS53\DATA\MS53-120402\0402-02.D	04/02/2012	09:21	
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/2012	09:51	
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/2012	11:20	
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/2012	11:50	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/2012	12:20	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/2012	12:49	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/2012	13:20	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/2012	13:50	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/2012	14:20	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/2012	14:50	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/2012	15:19	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/2012	15:49	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/2012	16:19	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/2012	16:49	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/2012	17:19	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/2012	17:49	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/2012	18:19	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/2012	18:49	
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/2012	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 10:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200334

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.8	34616	PASS
75	95	30	60	36.5	75304	PASS
95	95	100	100	100.0	206165	PASS
96	95	5	9	6.5	13426	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	74.0	152600	PASS
175	174	5	9	8.1	12319	PASS
176	174	95	101	95.9	146363	PASS
177	176	5	9	6.7	9745	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200334-2	J:\MS53\DATA\MS53-120403\0403-03.D	04/03/2012	11:53	
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/2012	12:25	
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/2012	13:53	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/2012	14:23	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/2012	14:52	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/2012	15:22	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/2012	15:51	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/2012	16:21	
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/2012	16:50	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/2012	17:20	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/2012	18:18	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS52\DATA\MS52-120227\0227-04.D	F	J:\MS52\DATA\MS52-120227\0227-09.D
B	J:\MS52\DATA\MS52-120227\0227-05.D	G	J:\MS52\DATA\MS52-120227\0227-10.D
C	J:\MS52\DATA\MS52-120227\0227-06.D	H	J:\MS52\DATA\MS52-120227\0227-11.D
D	J:\MS52\DATA\MS52-120227\0227-07.D	I	J:\MS52\DATA\MS52-120227\0227-12.D
E	J:\MS52\DATA\MS52-120227\0227-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	1.06	B	2.0	1.07	C	5.0	1.09	D	10	1.16	E	20	1.24
	F	50	1.29	G	100	1.41	H	150	1.24	I	200	1.35			
1,1,1-Trichloroethane (TCA)	A	1.0	0.672	B	2.0	0.693	C	5.0	0.706	D	10	0.709	E	20	0.843
	F	50	0.863	G	100	0.927	H	150	0.774	I	200	0.890			
1,1,2,2-Tetrachloroethane	A	1.0	0.996	B	2.0	0.870	C	5.0	0.993	D	10	0.943	E	20	0.984
	F	50	1.03	G	100	1.16	H	150	1.08	I	200	1.03			
1,1,2-Trichloroethane	A	1.0	0.650	B	2.0	0.651	C	5.0	0.608	D	10	0.664	E	20	0.665
	F	50	0.704	G	100	0.758	H	150	0.685	I	200	0.694			
1,1-Dichloroethane	A	1.0	0.636	B	2.0	0.665	C	5.0	0.745	D	10	0.712	E	20	0.795
	F	50	0.787	G	100	0.830	H	150	0.727	I	200	0.812			
1,1-Dichloroethene	A	1.0	0.518	B	2.0	0.546	C	5.0	0.598	D	10	0.564	E	20	0.676
	F	50	0.699	G	100	0.729	H	150	0.616	I	200	0.713			
1,2,3-Trichlorobenzene							C	5.0	1.51	D	10	1.53	E	20	1.65
	F	50	1.68	G	100	1.88	H	150	1.79	I	200	1.79			
1,2,4-Trichlorobenzene							C	5.0	1.78	D	10	1.65	E	20	1.85
	F	50	1.95	G	100	2.14	H	150	2.02	I	200	2.06			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.201	D	10	0.207	E	20	0.215
	F	50	0.224	G	100	0.265	H	150	0.268	I	200	0.246			
1,2-Dibromoethane (EDB)	A	1.0	0.828	B	2.0	0.746	C	5.0	0.831	D	10	0.838	E	20	0.879
	F	50	0.910	G	100	1.02	H	150	0.922	I	200	0.926			
1,2-Dichlorobenzene	A	1.0	2.20	B	2.0	2.23	C	5.0	2.29	D	10	2.27	E	20	2.42
	F	50	2.48	G	100	2.75	H	150	2.54	I	200	2.57			
1,2-Dichloroethane (EDC)	A	1.0	0.451	B	2.0	0.543	C	5.0	0.534	D	10	0.526	E	20	0.550
	F	50	0.559	G	100	0.594	H	150	0.529	I	200	0.541			
1,2-Dichloroethane-d4	A	50	0.259	B	50	0.263	C	50	0.260	D	50	0.257	E	50	0.250
	F	50	0.246	G	50	0.250	H	50	0.238	I	50	0.232			
1,2-Dichloropropane	A	1.0	0.317	B	2.0	0.359	C	5.0	0.385	D	10	0.389	E	20	0.419
	F	50	0.414	G	100	0.449	H	150	0.398	I	200	0.432			
1,3-Dichlorobenzene	A	1.0	2.49	B	2.0	2.45	C	5.0	2.50	D	10	2.50	E	20	2.68
	F	50	2.78	G	100	2.98	H	150	2.75	I	200	2.89			

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	2.55	B	2.0	2.49	C	5.0	2.54	D	10	2.51	E	20	2.68
	F	50	2.71	G	100	2.93	H	150	2.66	I	200	2.76			
2-Butanone (MEK)	A	5.0	0.110	B	10	0.121	C	25	0.134	D	50	0.129	E	100	0.122
	F	250	0.126	G	500	0.137	H	750	0.133	I	1000	0.120			
2-Hexanone	A	5.0	0.483	B	10	0.458	C	25	0.508	D	50	0.502	E	100	0.493
	F	250	0.519	G	500	0.587	H	750	0.567	I	1000	0.513			
4-Bromofluorobenzene	A	50	0.871	B	50	0.864	C	50	0.864	D	50	0.885	E	50	0.872
	F	50	0.901	G	50	0.940	H	50	1.01	I	50	1.05			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.687	B	10	0.676	C	25	0.718	D	50	0.734	E	100	0.712
	F	250	0.727	G	500	0.822	H	750	0.779	I	1000	0.708			
Acetone	A	5.0	0.109	B	10	0.114	C	25	0.0910	D	50	0.0862	E	100	0.0760
	F	250	0.0764	G	500	0.0848	H	750	0.0801	I	1000	0.0729			
Benzene	A	1.0	1.64	B	2.0	1.61	C	5.0	1.72	D	10	1.63	E	20	1.81
	F	50	1.84	G	100	1.93	H	150	1.66	I	200	1.84			
Bromochloromethane	A	1.0	0.229	B	2.0	0.251	C	5.0	0.275	D	10	0.266	E	20	0.289
	F	50	0.281	G	100	0.280	H	150	0.254	I	200	0.262			
Bromodichloromethane	A	1.0	0.550	B	2.0	0.529	C	5.0	0.562	D	10	0.550	E	20	0.610
	F	50	0.623	G	100	0.668	H	150	0.599	I	200	0.632			
Bromoform	A	1.0	0.578	B	2.0	0.610	C	5.0	0.604	D	10	0.656	E	20	0.670
	F	50	0.738	G	100	0.832	H	150	0.780	I	200	0.769			
Bromomethane	A	1.0	0.210	B	2.0	0.245	C	5.0	0.239	D	10	0.240	E	20	0.289
	F	50	0.312	G	100	0.316	H	150	0.267	I	200	0.285			
Carbon Disulfide	A	5.0	0.950	B	10	0.925	C	25	0.995	D	50	0.961	E	100	1.11
	F	250	1.12	G	500	1.16	H	750	0.967	I	1000	1.12			
Carbon Tetrachloride	A	1.0	0.499	B	2.0	0.583	C	5.0	0.602	D	10	0.603	E	20	0.705
	F	50	0.755	G	100	0.804	H	150	0.676	I	200	0.775			
Chlorobenzene	A	1.0	2.91	B	2.0	3.04	C	5.0	3.14	D	10	3.18	E	20	3.41
	F	50	3.49	G	100	3.79	H	150	3.26	I	200	3.61			
Chloroethane	A	1.0	0.284	B	2.0	0.292	C	5.0	0.287	D	10	0.265	E	20	0.321
	F	50	0.322	G	100	0.335	H	150	0.285	I	200	0.325			
Chloroform	A	1.0	0.865	B	2.0	0.772	C	5.0	0.799	D	10	0.779	E	20	0.844
	F	50	0.850	G	100	0.904	H	150	0.787	I	200	0.854			
Chloromethane	A	1.0	0.480	B	2.0	0.498	C	5.0	0.522	D	10	0.490	E	20	0.602
	F	50	0.595	G	100	0.630	H	150	0.530	I	200	0.616			
cis-1,2-Dichloroethene	A	1.0	0.521	B	2.0	0.547	C	5.0	0.560	D	10	0.524	E	20	0.600
	F	50	0.608	G	100	0.638	H	150	0.550	I	200	0.612			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	1.59	B	2.0	1.51	C	5.0	1.57	D	10	1.55	E	20	1.74
	F	50	1.82	G	100	1.96	H	150	1.77	I	200	1.89			
Cyclohexane	A	1.0	0.520	B	2.0	0.584	C	5.0	0.628	D	10	0.623	E	20	0.741
	F	50	0.762	G	100	0.817	H	150	0.690	I	200	0.796			
Dibromochloromethane	A	1.0	0.936	B	2.0	0.974	C	5.0	1.04	D	10	1.01	E	20	1.10
	F	50	1.15	G	100	1.28	H	150	1.15	I	200	1.20			
Dibromofluoromethane	A	50	0.243	B	50	0.248	C	50	0.245	D	50	0.244	E	50	0.243
	F	50	0.240	G	50	0.232	H	50	0.237	I	50	0.232			
Dichlorodifluoromethane	A	1.0	0.485	B	2.0	0.502	C	5.0	0.513	D	10	0.488	E	20	0.600
	F	50	0.618	G	100	0.650	H	150	0.531	I	200	0.602			
Ethylbenzene	A	1.0	4.98	B	2.0	4.98	C	5.0	5.31	D	10	5.29	E	20	6.02
	F	50	6.24	G	100	6.74	H	150	5.77	I	200	6.43			
Isopropylbenzene	A	1.0	3.99	B	2.0	4.07	C	5.0	4.52	D	10	4.56	E	20	5.01
	F	50	5.26	G	100	5.79	H	150	5.23	I	200	5.74			
m,p-Xylenes	A	2.0	3.98	B	4.0	3.87	C	10	4.20	D	20	4.25	E	40	4.83
	F	100	4.88	G	200	5.27	H	300	4.48	I	400	4.97			
Methyl Acetate	A	1.0	0.534	B	2.0	0.515	C	5.0	0.528	D	10	0.519	E	20	0.510
	F	50	0.481	G	100	0.537	H	150	0.506	I	200	0.458			
Methyl tert-Butyl Ether	A	1.0	1.04	B	2.0	1.05	C	5.0	1.05	D	10	1.01	E	20	1.05
	F	50	1.10	G	100	1.17	H	150	1.11	I	200	1.10			
Methylene Chloride	A	1.0	0.840	B	2.0	0.616	C	5.0	0.514	D	10	0.453	E	20	0.512
	F	50	0.493	G	100	0.481	H	150	0.436	I	200	0.449			
o-Xylene	A	1.0	4.45	B	2.0	4.11	C	5.0	4.44	D	10	4.38	E	20	4.91
	F	50	5.04	G	100	5.37	H	150	4.67	I	200	5.10			
Styrene	A	1.0	2.66	B	2.0	3.13	C	5.0	3.22	D	10	3.25	E	20	3.70
	F	50	3.83	G	100	4.21	H	150	3.67	I	200	3.99			
Tetrachloroethene (PCE)	A	1.0	0.932	B	2.0	0.963	C	5.0	1.08	D	10	1.05	E	20	1.21
	F	50	1.23	G	100	1.32	H	150	1.11	I	200	1.27			
Toluene	A	1.0	4.59	B	2.0	4.55	C	5.0	4.69	D	10	4.68	E	20	5.27
	F	50	5.33	G	100	5.73	H	150	4.91	I	200	5.46			
Toluene-d8	A	50	2.51	B	50	2.46	C	50	2.44	D	50	2.46	E	50	2.50
	F	50	2.47	G	50	2.52	H	50	2.45	I	50	2.52			
trans-1,2-Dichloroethene	A	1.0	0.580	B	2.0	0.560	C	5.0	0.577	D	10	0.557	E	20	0.650
	F	50	0.639	G	100	0.679	H	150	0.577	I	200	0.661			
trans-1,3-Dichloropropene	A	1.0	1.40	B	2.0	1.47	C	5.0	1.44	D	10	1.45	E	20	1.54
	F	50	1.64	G	100	1.85	H	150	1.67	I	200	1.74			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.417	B	2.0	0.448	C	5.0	0.503	D	10	0.491	E	20	0.550
	F	50	0.557	G	100	0.591	H	150	0.512	I	200	0.578			
Trichlorofluoromethane	A	1.0	0.748	B	2.0	0.708	C	5.0	0.742	D	10	0.720	E	20	0.879
	F	50	0.881	G	100	0.938	H	150	0.779	I	200	0.893			
Trichlorotrifluoroethane	A	1.0	0.330	B	2.0	0.332	C	5.0	0.376	D	10	0.372	E	20	0.452
	F	50	0.462	G	100	0.471	H	150	0.393	I	200	0.453			
Vinyl Chloride	A	1.0	0.369	B	2.0	0.439	C	5.0	0.448	D	10	0.423	E	20	0.496
	F	50	0.465	G	100	0.461	H	150	0.365	I	200	0.444			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	10.3		≤ 15	1.21		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.3		≤ 15	0.786		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	8.1		≤ 15	1.01		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	6.2		≤ 15	0.675		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.0		≤ 15	0.745		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	12.4		≤ 15	0.629		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	8.1		≤ 15	1.69		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	9.0		≤ 15	1.92		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	11.8		≤ 15	0.232		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	8.9		≤ 15	0.878		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	2.42		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	7.1		≤ 15	0.536		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	4.2		≤ 15	0.251		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	10.1		≤ 15	0.396		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	2.67		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	5.3		≤ 15	2.65		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	6.7		≤ 15	0.126		0.01
2-Hexanone	MS	AverageRF	% RSD	7.8		≤ 15	0.514		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.6		≤ 15	0.918		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.3		≤ 15	0.729		0.01
Acetone	MS	Linear	R2	0.994		≥ 0.99	0.0878		0.01
Benzene	MS	AverageRF	% RSD	6.7		≤ 15	1.74		0.01
Bromochloromethane	MS	AverageRF	% RSD	7.0		≤ 15	0.265		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.8		≤ 15	0.592		0.01
† Bromoform	MS	AverageRF	% RSD	12.9		≤ 15	0.693		0.1
Bromomethane	MS	AverageRF	% RSD	13.5		≤ 15	0.267		0.01
Carbon Disulfide	MS	AverageRF	% RSD	8.9		≤ 15	1.03		0.01
Carbon Tetrachloride	MS	Linear	R2	0.993		≥ 0.99	0.667		0.01
† Chlorobenzene	MS	AverageRF	% RSD	8.6		≤ 15	3.32		0.3
Chloroethane	MS	AverageRF	% RSD	8.1		≤ 15	0.302		0.01
‡ Chloroform	MS	AverageRF	% RSD	5.5		≤ 15	0.828		0.01
† Chloromethane	MS	AverageRF	% RSD	10.7		≤ 15	0.551		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	7.3		≤ 15	0.573		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	9.5		≤ 15	1.71		0.01
Cyclohexane	MS	AverageRF	% RSD	14.9		≤ 15	0.684		0.01
Dibromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	1.09		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.3		≤ 15	0.241		
Dichlorodifluoromethane	MS	AverageRF	% RSD	11.4		≤ 15	0.554		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	11.2		≤ 15	5.75		0.01
Isopropylbenzene	MS	AverageRF	% RSD	13.5		≤ 15	4.91		0.01
m,p-Xylenes	MS	AverageRF	% RSD	10.7		≤ 15	4.53		0.01
Methyl Acetate	MS	AverageRF	% RSD	5.1		≤ 15	0.510		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	4.6		≤ 15	1.08		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation: Average RRF	Q	Minimum RRF
Methylene Chloride	MS	Linear	R2	0.998		≥ 0.99	0.533		0.01
o-Xylene	MS	AverageRF	% RSD	8.7		≤ 15	4.72		0.01
Styrene	MS	AverageRF	% RSD	13.9		≤ 15	3.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	12.1		≤ 15	1.13		0.01
‡ Toluene	MS	AverageRF	% RSD	8.6		≤ 15	5.02		0.01
Toluene-d8	SURR	AverageRF	% RSD	1.2		≤ 15	2.48		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	7.8		≤ 15	0.609		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	9.7		≤ 15	1.58		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.516		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	10.8		≤ 15	0.810		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.9		≤ 15	0.405		0.01
‡ Vinyl Chloride	MS	AverageRF	% RSD	10.0		≤ 15	0.434		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

File ID: J:\MS52\DATA\MS52-120227\0227-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	1.21	1.25	3	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.786	0.827	5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	1.01	1.01	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.675	0.713	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.745	0.819	10	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.629	0.681	8	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	1.69	1.66	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	1.92	1.85	-4	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.232	0.212	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.878	0.906	3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	2.42	2.47	2	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.536	0.540	1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.396	0.425	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	20	2.67	2.72	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	2.65	2.73	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.126	0.122	-3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.514	0.515	0	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.729	0.730	0	NA	± 30 %	AverageRF
Acetone	100	93	0.0878	0.0775	NA	-7	± 30 %	Linear
Benzene	20	21	1.74	1.85	6	NA	± 30 %	AverageRF
Bromochloromethane	20	22	0.265	0.292	10	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.592	0.612	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.693	0.665	-4	NA	± 30 %	AverageRF
Bromomethane	20	19	0.267	0.258	-3	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	1.03	1.12	8	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.667	0.697	NA	-3	± 30 %	Linear
Chlorobenzene	20	21	3.32	3.51	6	NA	± 30 %	AverageRF
Chloroethane	20	21	0.302	0.321	7	NA	± 30 %	AverageRF
Chloroform	20	20	0.828	0.846	2	NA	± 30 %	AverageRF
Chloromethane	20	21	0.551	0.569	3	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.573	0.605	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	1.71	1.79	5	NA	± 30 %	AverageRF
Cyclohexane	20	22	0.684	0.743	9	NA	± 30 %	AverageRF
Dibromochloromethane	20	20	1.09	1.10	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.554	0.589	6	NA	± 30 %	AverageRF
Ethylbenzene	20	21	5.75	6.10	6	NA	± 30 %	AverageRF
Isopropylbenzene	20	21	4.91	5.23	7	NA	± 30 %	AverageRF
m,p-Xylenes	40	43	4.53	4.90	8	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.510	0.512	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	1.08	1.10	2	NA	± 30 %	AverageRF
Methylene Chloride	20	26	0.533	0.618	NA	29	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	21	4.72	4.99	6	NA	± 30 %	AverageRF
Styrene	20	22	3.52	3.83	9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	21	1.13	1.21	7	NA	± 30 %	AverageRF
Toluene	20	21	5.02	5.34	6	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.609	0.653	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	1.58	1.57	0	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.516	0.579	12	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.810	0.857	6	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.405	0.435	7	NA	± 30 %	AverageRF
Vinyl Chloride	20	23	0.434	0.493	13	NA	± 30 %	AverageRF

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Level ID	File ID
A	J:\MS53\DATA\MS53-120307\0307-03.D
B	J:\MS53\DATA\MS53-120307\0307-04.D
C	J:\MS53\DATA\MS53-120307\0307-05.D
D	J:\MS53\DATA\MS53-120307\0307-06.D
E	J:\MS53\DATA\MS53-120307\0307-08.D
F	J:\MS53\DATA\MS53-120307\0307-09.D
G	J:\MS53\DATA\MS53-120307\0307-10.D
H	J:\MS53\DATA\MS53-120307\0307-11.D
I	J:\MS53\DATA\MS53-120307\0307-15.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	0.493	B	2.0	0.424	C	5.0	0.487	D	10	0.500	E	50	0.524
	F	100	0.512	G	150	0.473	H	200	0.463	I	20	0.523			
1,1,1-Trichloroethane (TCA)	A	1.0	0.186	B	2.0	0.173	C	5.0	0.216	D	10	0.207	E	50	0.253
	F	100	0.246	G	150	0.241	H	200	0.241	I	20	0.227			
1,1,2,2-Tetrachloroethane	A	1.0	0.721	B	2.0	0.736	C	5.0	0.779	D	10	0.812	E	50	0.777
	F	100	0.734	G	150	0.659	H	200	0.569	I	20	0.763			
1,1,2-Trichloroethane	A	1.0	0.374	B	2.0	0.341	C	5.0	0.369	D	10	0.374	E	50	0.363
	F	100	0.380	G	150	0.348	H	200	0.339	I	20	0.381			
1,1-Dichloroethane	A	1.0	0.341	B	2.0	0.323	C	5.0	0.390	D	10	0.382	E	50	0.427
	F	100	0.421	G	150	0.422	H	200	0.411	I	20	0.406			
1,1-Dichloroethene	A	1.0	0.218	B	2.0	0.195	C	5.0	0.247	D	10	0.227	E	50	0.266
	F	100	0.240	G	150	0.219	H	200	0.206	I	20	0.257			
1,2,3-Trichlorobenzene										D	10	0.342	E	50	0.343
	F	100	0.373	G	150	0.354	H	200	0.354	I	20	0.337			
1,2,4-Trichlorobenzene										D	10	0.485	E	50	0.533
	F	100	0.564	G	150	0.552	H	200	0.552	I	20	0.505			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.0716	D	10	0.0723	E	50	0.0750
	F	100	0.0823	G	150	0.0817	H	200	0.0823	I	20	0.0665			
1,2-Dibromoethane (EDB)	A	1.0	0.375	B	2.0	0.367	C	5.0	0.413	D	10	0.423	E	50	0.415
	F	100	0.425	G	150	0.406	H	200	0.382	I	20	0.421			
1,2-Dichlorobenzene	A	1.0	1.10	B	2.0	0.997	C	5.0	1.15	D	10	1.09	E	50	1.12
	F	100	1.12	G	150	1.03	H	200	1.01	I	20	1.16			
1,2-Dichloroethane (EDC)	A	1.0	0.136	B	2.0	0.117	C	5.0	0.138	D	10	0.137	E	50	0.147
	F	100	0.145	G	150	0.145	H	200	0.143	I	20	0.141			
1,2-Dichloroethane-d4	A	50	0.147	B	50	0.149	C	50	0.145	D	50	0.148	E	50	0.146
	F	50	0.144	G	50	0.146	H	50	0.141	I	50	0.141			
1,2-Dichloropropane	A	1.0	0.207	B	2.0	0.201	C	5.0	0.223	D	10	0.224	E	50	0.245
	F	100	0.240	G	150	0.233	H	200	0.230	I	20	0.234			
1,3-Dichlorobenzene	A	1.0	1.27	B	2.0	1.14	C	5.0	1.33	D	10	1.26	E	50	1.26
	F	100	1.16	G	150	1.06	H	200	0.987	I	20	1.31			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	1.21	B	2.0	1.11	C	5.0	1.28	D	10	1.25	E	50	1.31
	F	100	1.24	G	150	1.18	H	200	1.09	I	20	1.36			
2-Butanone (MEK)	A	5.0	0.00960	B	10	0.0116	C	25	0.0117	D	50	0.0121	E	250	0.0134
	F	500	0.0126	G	750	0.0128	H	1000	0.0131	I	100	0.0122			
2-Hexanone				B	10	0.293	C	25	0.288	D	50	0.283	E	250	0.263
	F	500	0.273	G	750	0.250	H	1000	0.238	I	100	0.278			
4-Bromofluorobenzene	A	50	1.02	B	50	0.970	C	50	0.993	D	50	0.952	E	50	0.907
	F	50	0.857	G	50	0.815	H	50	0.793	I	50	0.954			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.422	B	10	0.421	C	25	0.431	D	50	0.435	E	250	0.405
	F	500	0.401	G	750	0.380	H	1000	0.364	I	100	0.428			
Acetone	A	5.0	0.0341	B	10	0.0312	C	25	0.0313	D	50	0.0309	E	250	0.0284
	F	500	0.0286	G	750	0.0280	H	1000	0.0265	I	100	0.0274			
Benzene	A	1.0	0.820	B	2.0	0.794	C	5.0	0.904	D	10	0.885	E	50	0.990
	F	100	0.952	G	150	0.913	H	200	0.875	I	20	0.955			
Bromochloromethane	A	1.0	0.114	B	2.0	0.111	C	5.0	0.133	D	10	0.136	E	50	0.146
	F	100	0.145	G	150	0.148	H	200	0.145	I	20	0.142			
Bromodichloromethane	A	1.0	0.207	B	2.0	0.202	C	5.0	0.227	D	10	0.231	E	50	0.252
	F	100	0.246	G	150	0.244	H	200	0.233	I	20	0.241			
Bromoform	A	1.0	0.172	B	2.0	0.166	C	5.0	0.209	D	10	0.224	E	50	0.249
	F	100	0.246	G	150	0.236	H	200	0.224	I	20	0.232			
Bromomethane	A	1.0	0.172	B	2.0	0.160	C	5.0	0.182	D	10	0.184	E	50	0.217
	F	100	0.173	G	150	0.157	H	200	0.147	I	20	0.190			
Carbon Disulfide	A	5.0	0.669	B	10	0.622	C	25	0.755	D	50	0.708	E	250	0.796
	F	500	0.685	G	750	0.613	H	1000	0.560	I	100	0.787			
Carbon Tetrachloride	A	1.0	0.132	B	2.0	0.133	C	5.0	0.168	D	10	0.158	E	50	0.198
	F	100	0.195	G	150	0.190	H	200	0.193	I	20	0.178			
Chlorobenzene	A	1.0	1.44	B	2.0	1.39	C	5.0	1.57	D	10	1.54	E	50	1.56
	F	100	1.52	G	150	1.37	H	200	1.29	I	20	1.64			
Chloroethane	A	1.0	0.154	B	2.0	0.143	C	5.0	0.161	D	10	0.167	E	50	0.188
	F	100	0.162	G	150	0.150	H	200	0.143	I	20	0.178			
Chloroform	A	1.0	0.323	B	2.0	0.293	C	5.0	0.343	D	10	0.328	E	50	0.370
	F	100	0.368	G	150	0.370	H	200	0.357	I	20	0.350			
Chloromethane	A	1.0	0.306	B	2.0	0.286	C	5.0	0.324	D	10	0.314	E	50	0.389
	F	100	0.331	G	150	0.310	H	200	0.296	I	20	0.350			
cis-1,2-Dichloroethene	A	1.0	0.246	B	2.0	0.242	C	5.0	0.291	D	10	0.285	E	50	0.315
	F	100	0.310	G	150	0.308	H	200	0.301	I	20	0.307			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	0.867	B	2.0	0.838	C	5.0	0.964	D	10	0.976	E	50	0.970
	F	100	1.01	G	150	0.946	H	200	0.861	I	20	0.984			
Cyclohexane	A	1.0	0.302	B	2.0	0.267	C	5.0	0.366	D	10	0.311	E	50	0.419
	F	100	0.412	G	150	0.404	H	200	0.413	I	20	0.389			
Dibromochloromethane	A	1.0	0.442	B	2.0	0.394	C	5.0	0.445	D	10	0.461	E	50	0.462
	F	100	0.473	G	150	0.437	H	200	0.412	I	20	0.476			
Dibromofluoromethane	A	50	0.255	B	50	0.258	C	50	0.256	D	50	0.256	E	50	0.258
	F	50	0.260	G	50	0.261	H	50	0.255	I	50	0.256			
Dichlorodifluoromethane	A	1.0	0.110	B	2.0	0.138	C	5.0	0.165	D	10	0.155	E	50	0.201
	F	100	0.180	G	150	0.172	H	200	0.171	I	20	0.181			
Ethylbenzene	A	1.0	2.47	B	2.0	2.16	C	5.0	2.70	D	10	2.58	E	50	2.63
	F	100	2.56	G	150	2.23	H	200	2.03	I	20	2.78			
Isopropylbenzene	A	1.0	2.13	B	2.0	1.81	C	5.0	2.30	D	10	2.11	E	50	2.35
	F	100	2.21	G	150	2.04	H	200	1.94	I	20	2.39			
m,p-Xylenes	A	2.0	1.84	B	4.0	1.65	C	10	1.94	D	20	1.91	E	100	1.86
	F	200	1.67	G	300	1.42	H	400	1.26	I	40	2.04			
Methyl Acetate	A	1.0	0.314	B	2.0	0.285	C	5.0	0.285	D	10	0.294	E	50	0.296
	F	100	0.291	G	150	0.285	H	200	0.270	I	20	0.287			
Methyl tert-Butyl Ether	A	1.0	0.310	B	2.0	0.317	C	5.0	0.363	D	10	0.361	E	50	0.381
	F	100	0.376	G	150	0.374	H	200	0.377	I	20	0.359			
Methylene Chloride	A	1.0	0.228	B	2.0	0.210	C	5.0	0.255	D	10	0.243	E	50	0.278
	F	100	0.266	G	150	0.259	H	200	0.256	I	20	0.264			
o-Xylene	A	1.0	1.82	B	2.0	1.66	C	5.0	2.00	D	10	1.97	E	50	1.96
	F	100	1.85	G	150	1.63	H	200	1.43	I	20	2.02			
Styrene	A	1.0	1.51	B	2.0	1.37	C	5.0	1.63	D	10	1.63	E	50	1.61
	F	100	1.58	G	150	1.37	H	200	1.28	I	20	1.68			
Tetrachloroethene (PCE)	A	1.0	0.392	B	2.0	0.356	C	5.0	0.466	D	10	0.436	E	50	0.492
	F	100	0.500	G	150	0.461	H	200	0.441	I	20	0.511			
Toluene	A	1.0	2.37	B	2.0	2.18	C	5.0	2.58	D	10	2.43	E	50	2.54
	F	100	2.47	G	150	2.16	H	200	1.99	I	20	2.73			
Toluene-d8	A	50	2.41	B	50	2.43	C	50	2.45	D	50	2.48	E	50	2.35
	F	50	2.44	G	50	2.41	H	50	2.34	I	50	2.48			
trans-1,2-Dichloroethene	A	1.0	0.258	B	2.0	0.248	C	5.0	0.305	D	10	0.285	E	50	0.345
	F	100	0.338	G	150	0.333	H	200	0.326	I	20	0.324			
trans-1,3-Dichloropropene	A	1.0	0.620	B	2.0	0.584	C	5.0	0.677	D	10	0.694	E	50	0.674
	F	100	0.714	G	150	0.664	H	200	0.623	I	20	0.697			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.181	B	2.0	0.172	C	5.0	0.213	D	10	0.204	E	50	0.233
	F	100	0.228	G	150	0.221	H	200	0.209	I	20	0.224			
Trichlorofluoromethane				B	2.0	0.137	C	5.0	0.190	D	10	0.176	E	50	0.225
	F	100	0.216	G	150	0.209	H	200	0.206	I	20	0.205			
Trichlorotrifluoroethane	A	1.0	0.154	B	2.0	0.138	C	5.0	0.181	D	10	0.175	E	50	0.223
	F	100	0.197	G	150	0.186	H	200	0.187	I	20	0.202			
Vinyl Chloride	A	1.0	0.208	B	2.0	0.198	C	5.0	0.254	D	10	0.242	E	50	0.277
										I	20	0.272			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.6		≤ 15	0.221		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	10.1		≤ 15	0.728		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	4.6		≤ 15	0.363		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.5		≤ 15	0.391		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	10.3		≤ 15	0.230		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	3.7		≤ 15	0.351		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.532		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	8.3		≤ 15	0.0760		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	5.6		≤ 15	0.403		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.5		≤ 15	1.09		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	6.6		≤ 15	0.139		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	1.8		≤ 15	0.145		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	6.4		≤ 15	0.227		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	9.8		≤ 15	1.20		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	7.2		≤ 15	1.22		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	9.2		≤ 15	0.0121		0.01
2-Hexanone	MS	AverageRF	% RSD	7.0		≤ 15	0.271		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	8.7		≤ 15	0.917		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.0		≤ 15	0.410		0.01
Acetone	MS	AverageRF	% RSD	8.2		≤ 15	0.0296		0.01
Benzene	MS	AverageRF	% RSD	7.1		≤ 15	0.899		0.01
Bromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	0.135		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.5		≤ 15	0.231		0.01
† Bromoform	MS	AverageRF	% RSD	13.8		≤ 15	0.218		0.1
Bromomethane	MS	AverageRF	% RSD	11.8		≤ 15	0.176		0.01
Carbon Disulfide	MS	AverageRF	% RSD	11.8		≤ 15	0.689		0.01
Carbon Tetrachloride	MS	Linear	R2	1.000		≥ 0.99	0.172		0.01
† Chlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	1.48		0.3
Chloroethane	MS	AverageRF	% RSD	9.6		≤ 15	0.161		0.01
‡ Chloroform	MS	AverageRF	% RSD	7.5		≤ 15	0.345		0.01
† Chloromethane	MS	AverageRF	% RSD	9.7		≤ 15	0.323		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	9.5		≤ 15	0.290		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	6.7		≤ 15	0.935		0.01
Cyclohexane	MS	Linear	R2	1.000		≥ 0.99	0.365		0.01
Dibromochloromethane	MS	AverageRF	% RSD	6.2		≤ 15	0.445		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	0.8		≤ 15	0.257		
Dichlorodifluoromethane	MS	Linear	R2	0.998		≥ 0.99	0.164		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	10.6		≤ 15	2.46		0.01
Isopropylbenzene	MS	AverageRF	% RSD	9.0		≤ 15	2.14		0.01
m,p-Xylenes	MS	AverageRF	% RSD	14.9		≤ 15	1.73		0.01
Methyl Acetate	MS	AverageRF	% RSD	4.1		≤ 15	0.290		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	7.3		≤ 15	0.358		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	AverageRF	% RSD	8.3		≤ 15	0.251		0.01
o-Xylene	MS	AverageRF	% RSD	11.2		≤ 15	1.81		0.01
Styrene	MS	AverageRF	% RSD	9.4		≤ 15	1.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	11.3		≤ 15	0.451		0.01
‡ Toluene	MS	AverageRF	% RSD	9.9		≤ 15	2.38		0.01
Toluene-d8	SURR	AverageRF	% RSD	2.1		≤ 15	2.42		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	11.5		≤ 15	0.307		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	6.5		≤ 15	0.661		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	10.0		≤ 15	0.209		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	14.3		≤ 15	0.196		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.8		≤ 15	0.183		0.01
‡ Vinyl Chloride	MS	Linear	R2	1.000		≥ 0.99	0.242		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

File ID: J:\MS53\DATA\MS53-120307\0307-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	0.489	0.523	7	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.221	0.234	6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	22	0.728	0.785	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.363	0.386	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.391	0.419	7	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.230	0.261	13	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	0.351	0.349	0	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	20	0.532	0.523	-2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	19	0.0760	0.0717	-6	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.403	0.427	6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	22	1.09	1.19	10	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	21	0.139	0.142	3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.227	0.240	6	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	22	1.20	1.35	12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	22	1.22	1.33	9	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	110	0.0121	0.0131	8	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.271	0.280	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	110	0.410	0.432	5	NA	± 30 %	AverageRF
Acetone	100	93	0.0296	0.0276	-7	NA	± 30 %	AverageRF
Benzene	20	22	0.899	0.979	9	NA	± 30 %	AverageRF
Bromochloromethane	20	21	0.135	0.143	6	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.231	0.244	5	NA	± 30 %	AverageRF
Bromoform	20	22	0.218	0.239	10	NA	± 30 %	AverageRF
Bromomethane	20	22	0.176	0.192	9	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.689	0.795	15	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.172	0.181	NA	-3	± 30 %	Linear
Chlorobenzene	20	22	1.48	1.62	10	NA	± 30 %	AverageRF
Chloroethane	20	22	0.161	0.175	9	NA	± 30 %	AverageRF
Chloroform	20	21	0.345	0.364	6	NA	± 30 %	AverageRF
Chloromethane	20	22	0.323	0.351	9	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.290	0.306	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	0.935	0.996	6	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.365	0.398	NA	0	± 30 %	Linear
Dibromochloromethane	20	21	0.445	0.478	7	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.164	0.164	NA	-11	± 30 %	Linear
Ethylbenzene	20	23	2.46	2.81	14	NA	± 30 %	AverageRF
Isopropylbenzene	20	23	2.14	2.41	13	NA	± 30 %	AverageRF
m,p-Xylenes	40	47	1.73	2.03	17	NA	± 30 %	AverageRF
Methyl Acetate	20	21	0.290	0.301	4	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.358	0.363	2	NA	± 30 %	AverageRF
Methylene Chloride	20	22	0.251	0.271	8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	23	1.81	2.07	14	NA	± 30 %	AverageRF
Styrene	20	22	1.52	1.70	12	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	23	0.451	0.515	14	NA	± 30 %	AverageRF
Toluene	20	23	2.38	2.71	14	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.307	0.328	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	21	0.661	0.696	5	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.209	0.229	10	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.196	0.206	5	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	22	0.183	0.199	9	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.242	0.264	NA	-2	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

File ID: J:\MS52\DATA\MS52-120322\0322-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	1.21	1.10	-9	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	18	0.01	0.786	0.715	-9	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	1.01	0.998	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.675	0.656	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	19	0.1	0.745	0.708	-5	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	17	0.01	0.629	0.526	-16	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	1.69	1.63	-4	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	0.01	1.92	1.86	-3	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.01	0.232	0.213	-8	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.878	0.824	-6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	18	0.01	2.42	2.22	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	18	0.01	0.536	0.491	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	50		0.251	0.251	0	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	19	0.01	0.396	0.378	-4	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	19	0.01	2.67	2.49	-7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	18	0.01	2.65	2.44	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.126	0.129	3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.01	0.514	0.521	1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	47		0.918	0.861	-6	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.01	0.729	0.733	1	NA	± 30 %	AverageRF
Acetone	100	98	0.01	0.0878	0.0782	NA	-2	± 30 %	Linear
Benzene	20	19	0.01	1.74	1.63	-6	NA	± 30 %	AverageRF
Bromochloromethane	20	20	0.01	0.265	0.260	-2	NA	± 30 %	AverageRF
Bromodichloromethane	20	18	0.01	0.592	0.536	-9	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.693	0.631	-9	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.267	0.247	-7	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	1.03	1.20	16	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.667	0.591	NA	-17	± 30 %	Linear
Chlorobenzene	20	19	0.3	3.32	3.19	-4	NA	± 30 %	AverageRF
Chloroethane	20	19	0.01	0.302	0.288	-4	NA	± 30 %	AverageRF
Chloroform	20	18	0.01	0.828	0.729	-12	NA	± 20 %	AverageRF
Chloromethane	20	17	0.1	0.551	0.480	-13	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	19	0.01	0.573	0.541	-6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	19	0.01	1.71	1.63	-5	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.684	0.674	-2	NA	± 30 %	AverageRF
Dibromochloromethane	20	18	0.01	1.09	0.995	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.241	0.238	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.01	0.554	0.489	-12	NA	± 30 %	AverageRF
Ethylbenzene	20	19	0.01	5.75	5.57	-3	NA	± 20 %	AverageRF
Isopropylbenzene	20	21	0.01	4.91	5.09	4	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	39	0.01	4.53	4.39	-3	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.510	0.509	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	1.08	1.05	-2	NA	± 30 %	AverageRF
Methylene Chloride	20	17	0.01	0.533	0.395	NA	-17	± 30 %	Linear
o-Xylene	20	19	0.01	4.72	4.49	-5	NA	± 30 %	AverageRF
Styrene	20	20	0.01	3.52	3.47	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.01	1.13	1.12	-1	NA	± 30 %	AverageRF
Toluene	20	19	0.01	5.02	4.81	-4	NA	± 20 %	AverageRF
Toluene-d8	50	51		2.48	2.51	1	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	18	0.01	0.609	0.556	-9	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	1.58	1.46	-8	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	19	0.01	0.516	0.490	-5	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	18	0.01	0.810	0.722	-11	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	17	0.01	0.405	0.353	-13	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.434	0.432	-1	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

File ID: J:\MS53\DATA\MS53-120330\0330-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.459	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.208	-6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.719	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.398	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.256	11	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	18	0.01	0.351	0.323	-8	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.468	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	15	0.01	0.0760	0.0577	-24	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.373	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	0.01	1.09	1.08	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.136	-2	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	49		0.145	0.144	-1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.238	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.22	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	0.01	1.22	1.26	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0127	5	NA	± 30 %	AverageRF
2-Hexanone	100	94	0.01	0.271	0.254	-6	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	54		0.917	0.993	8	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.384	-6	NA	± 30 %	AverageRF
Acetone	100	93	0.01	0.0296	0.0274	-7	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.927	3	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.132	-3	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.228	-2	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.218	0.201	-8	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.162	-8	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.172	0.159	NA	-15	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.160	0	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.338	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.378	17	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.296	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.934	0	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.387	NA	-2	± 30 %	Linear
Dibromochloromethane	20	19	0.01	0.445	0.411	-8	NA	± 30 %	AverageRF
Dibromofluoromethane	50	49		0.257	0.254	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.194	NA	6	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.49	1	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.50	17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.290	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.357	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.252	0	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.80	-1	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.50	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.428	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.33	-2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.299	-2	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	19	0.01	0.661	0.637	-4	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.207	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.183	0	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.278	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

File ID: J:\MS53\DATA\MS53-120402\0402-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.460	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.212	-4	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.729	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.352	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.399	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.01	0.230	0.263	14	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.470	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0614	-19	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	18	0.01	0.403	0.371	-8	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.02	-6	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	19	0.01	0.139	0.132	-5	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	47		0.145	0.137	-6	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.237	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.21	-1	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.01	0.0121	0.0118	-3	NA	± 30 %	AverageRF
2-Hexanone	100	92	0.01	0.271	0.249	-8	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	53		0.917	0.967	5	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.386	-6	NA	± 30 %	AverageRF
Acetone	100	88	0.01	0.0296	0.0261	-12	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.965	7	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.129	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.234	1	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.211	-3	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.176	0.165	-6	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	0.689	0.804	17	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.170	NA	-9	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.46	-1	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.163	1	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.336	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.375	16	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.01	0.290	0.305	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.946	1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.407	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.257	0.259	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.191	NA	5	± 30 %	Linear
Ethylbenzene	20	19	0.01	2.46	2.36	-4	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.43	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.283	-2	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.360	1	NA	± 30 %	AverageRF
Methylene Chloride	20	21	0.01	0.251	0.261	4	NA	± 30 %	AverageRF
o-Xylene	20	21	0.01	1.81	1.87	3	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.52	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.429	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.42	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.309	1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.653	-1	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.208	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.194	-1	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.186	2	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.242	0.276	NA	2	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

File ID: J:\MS53\DATA\MS53-120403\0403-03.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	0.489	0.451	-8	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.210	-5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.734	1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.1	0.391	0.401	3	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.251	9	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.481	-10	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0607	-20	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.375	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.05	-3	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.137	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	48		0.145	0.140	-3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.233	3	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.20	1.23	3	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.20	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0124	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.271	0.252	-7	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	51		0.917	0.942	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.385	-6	NA	± 30 %	AverageRF
Acetone	100	92	0.01	0.0296	0.0273	-8	NA	± 30 %	AverageRF
Benzene	20	20	0.01	0.899	0.915	2	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.128	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.01	0.231	0.238	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.202	-7	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.157	-11	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.166	NA	-11	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	21	0.01	0.161	0.165	3	NA	± 30 %	AverageRF
Chloroform	20	19	0.01	0.345	0.329	-5	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.369	14	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.289	0	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.922	-1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.406	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48		0.257	0.248	-4	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.189	NA	4	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.51	2	NA	± 20 %	AverageRF
Isopropylbenzene	20	22	0.01	2.14	2.38	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.78	3	NA	± 30 %	AverageRF
Methyl Acetate	20	19	0.01	0.290	0.272	-6	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.358	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.246	-2	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.82	0	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.51	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.420	-7	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.44	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.31	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.304	-1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.651	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.206	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.01	0.183	0.192	5	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.280	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200306
Instrument ID: MS52

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0322-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200306-1	3/22/2012	09:17		3/22/2012	09:32
\0322-02.D	Continuing Calibration Verification	JWG1200306-2	3/22/2012	09:45		3/22/2012	10:00
\0322-03.D	Lab Control Sample	JWG1200305-1	3/22/2012	10:14		3/22/2012	10:29
\0322-05.D	Method Blank	JWG1200305-2	3/22/2012	11:28		3/22/2012	11:43
\0322-19.D	CRHE-188849-IDW-03212012	J1201360-025	3/22/2012	18:20		3/22/2012	18:35
\0322-20.D	CRHE-188797-IDW-03212012	J1201360-026	3/22/2012	18:48		3/22/2012	19:03
\0322-21.D	CRHE-188842-IDW-03212012	J1201360-027	3/22/2012	19:17		3/22/2012	19:32
\0322-22.D	CRHE-188838-IDW-03212012	J1201360-028	3/22/2012	19:45		3/22/2012	20:00

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B
Analysis Lot: JWG1200322
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0330-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200322-1	3/30/2012	10:42		3/30/2012	10:57
\0330-02.D	Continuing Calibration Verification	JWG1200322-2	3/30/2012	11:12		3/30/2012	11:27
\0330-03.D	Lab Control Sample	JWG1200321-1	3/30/2012	11:42		3/30/2012	11:57
\0330-06.D	Method Blank	JWG1200321-2	3/30/2012	13:10		3/30/2012	13:25
\0330-07.D	CRHE-MW0032-045.0-03192012	J1201360-001	3/30/2012	13:40		3/30/2012	13:55
\0330-08.D	CRHE-MW0030-010.0-03192012	J1201360-002	3/30/2012	14:10		3/30/2012	14:25
\0330-09.D	CRHE-MW0023-065.0-03192012	J1201360-003	3/30/2012	14:40		3/30/2012	14:55
\0330-10.D	CRHE-MW0031-045.0-03192012	J1201360-004	3/30/2012	15:09		3/30/2012	15:24
\0330-11.D	CRHE-IW0020I-045.0-03192012	J1201360-005	3/30/2012	15:39		3/30/2012	15:54
\0330-12.D	CRHE-MW0039-030.0-03192012	J1201360-006	3/30/2012	16:09		3/30/2012	16:24
\0330-13.D	CRHE-MW0038-010.0-03192012	J1201360-007	3/30/2012	16:39		3/30/2012	16:54
\0330-14.D	EB01-03192012	J1201360-008	3/30/2012	17:09		3/30/2012	17:24
\0330-15.D	CRHE-IW0015I-040.0-03192012	J1201360-009	3/30/2012	17:39		3/30/2012	17:54
\0330-16.D	CRHE-MW0034-038.5-03202012	J1201360-010	3/30/2012	18:09		3/30/2012	18:24
\0330-17.D	CRHE-IW0019I-040.0-03202012	J1201360-011	3/30/2012	18:39		3/30/2012	18:54
\0330-18.D	CRHE-MW0033-048.5-03202012	J1201360-012	3/30/2012	19:09		3/30/2012	19:24
\0330-19.D	CRHE-IW0021I-045.0-03202012	J1201360-013	3/30/2012	19:39		3/30/2012	19:54
\0330-20.D	CRHE-MW0035-045.0-03202012	J1201360-014	3/30/2012	20:09		3/30/2012	20:24
\0330-21.D	CRHE-MW0028-040.0-03202012	J1201360-015	3/30/2012	20:39		3/30/2012	20:54
\0330-22.D	CRHE-MW0037-030.0-03202012	J1201360-016	3/30/2012	21:08		3/30/2012	21:23
\0330-23.D	CRHE-IW0017I-030.0-03202012	J1201360-017	3/30/2012	21:38		3/30/2012	21:53

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B
Analysis Lot: JWG1200326
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0402-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200326-1	4/2/2012	08:51		4/2/2012	09:06
\0402-02.D	Continuing Calibration Verification	JWG1200326-2	4/2/2012	09:21		4/2/2012	09:36
\0402-03.D	Lab Control Sample	JWG1200325-1	4/2/2012	09:51		4/2/2012	10:06
\0402-06.D	Method Blank	JWG1200325-2	4/2/2012	11:20		4/2/2012	11:35
\0402-07.D	Trip Blank	J1201360-029	4/2/2012	11:50		4/2/2012	12:05
\0402-08.D	CRHE-MW0032-045.0-03192012	J1201360-001	4/2/2012	12:20		4/2/2012	12:35
\0402-09.D	CRHE-MW0031-045.0-03192012	J1201360-004	4/2/2012	12:49		4/2/2012	13:04
\0402-10.D	CRHE-IW0020I-045.0-03192012	J1201360-005	4/2/2012	13:20		4/2/2012	13:35
\0402-11.D	CRHE-MW0039-030.0-03192012	J1201360-006	4/2/2012	13:50		4/2/2012	14:05
\0402-12.D	CRHE-MW0034-038.5-03202012	J1201360-010	4/2/2012	14:20		4/2/2012	14:35
\0402-13.D	CRHE-IW0019I-040.0-03202012	J1201360-011	4/2/2012	14:50		4/2/2012	15:05
\0402-14.D	CRHE-MW0035-045.0-03202012	J1201360-014	4/2/2012	15:19		4/2/2012	15:34
\0402-15.D	CRHE-MW0028-040.0-03202012	J1201360-015	4/2/2012	15:49		4/2/2012	16:04
\0402-16.D	CRHE-IW0017I-030.0-03202012	J1201360-017	4/2/2012	16:19		4/2/2012	16:34
\0402-17.D	CRHE-MW0027-045.0-03212012	J1201360-022	4/2/2012	16:49		4/2/2012	17:04
\0402-18.D	CRHE-MW0022-065.0-03212012	J1201360-021	4/2/2012	17:19		4/2/2012	17:34
\0402-19.D	CRHE-MW0026-035.0-03212012	J1201360-020	4/2/2012	17:49		4/2/2012	18:04
\0402-20.D	CRHE-MW0029-045.0-03212012	J1201360-019	4/2/2012	18:19		4/2/2012	18:34
\0402-21.D	CRHE-IW0014I-040.0-03212012	J1201360-018	4/2/2012	18:49		4/2/2012	19:04
\0402-22.D	CRHE-MW0024-010.0-03212012	J1201360-023	4/2/2012	19:19		4/2/2012	19:34

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200334
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0403-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200334-1	4/3/2012	10:53		4/3/2012	11:08
\0403-03.D	Continuing Calibration Verification	JWG1200334-2	4/3/2012	11:53		4/3/2012	12:08
\0403-04.D	Lab Control Sample	JWG1200333-3	4/3/2012	12:25		4/3/2012	12:40
\0403-07.D	Method Blank	JWG1200333-4	4/3/2012	13:53		4/3/2012	14:08
\0403-08.D	CRHE-IW0014I-040.0-03212012	J1201360-018	4/3/2012	14:23		4/3/2012	14:38
\0403-09.D	CRHE-MW0022-065.0-03212012	J1201360-021	4/3/2012	14:52		4/3/2012	15:07
\0403-10.D	CRHE-MW0029-045.0-03212012	J1201360-019	4/3/2012	15:22		4/3/2012	15:37
\0403-11.D	CRHE-MW0026-035.0-03212012	J1201360-020	4/3/2012	15:51		4/3/2012	16:06
\0403-12.D	CRHE-MW0027-045.0-03212012	J1201360-022	4/3/2012	16:21		4/3/2012	16:36
\0403-13.D	CHRE-MW0036-010.0-03202012	J1201360-030	4/3/2012	16:50		4/3/2012	17:05
\0403-14.D	CRHE-MW0025-030.0-03212012	J1201360-024	4/3/2012	17:20		4/3/2012	17:35
\0403-16.D	CRHE-MW0025-030.0-03212012	J1201360-024	4/3/2012	18:18		4/3/2012	18:33
\0403-17.D	ZZZZZZ	ZZZZZZ	4/3/2012	18:48		4/3/2012	19:03
\0403-18.D	ZZZZZZ	ZZZZZZ	4/3/2012	19:17		4/3/2012	19:32
\0403-19.D	ZZZZZZ	ZZZZZZ	4/3/2012	19:46		4/3/2012	20:01
\0403-20.D	ZZZZZZ	ZZZZZZ	4/3/2012	20:16		4/3/2012	20:31
\0403-21.D	ZZZZZZ	ZZZZZZ	4/3/2012	20:46		4/3/2012	21:01
\0403-22.D	ZZZZZZ	ZZZZZZ	4/3/2012	21:15		4/3/2012	21:30
\0403-23.D	ZZZZZZ	ZZZZZZ	4/3/2012	21:45		4/3/2012	22:00
\0403-24.D	ZZZZZZ	ZZZZZZ	4/3/2012	22:15		4/3/2012	22:30
\0403-26.D	ZZZZZZ	ZZZZZZ	4/3/2012	23:14		4/3/2012	23:29
\0403-27.D	ZZZZZZ	ZZZZZZ	4/3/2012	23:44		4/3/2012	23:59

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200321
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-MW0032-045.0-03192C	J1201360-001	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0030-010.0-03192C	J1201360-002	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0023-065.0-03192C	J1201360-003	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0031-045.0-03192C	J1201360-004	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0020I-045.0-031920	J1201360-005	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0039-030.0-03192C	J1201360-006	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0038-010.0-03192C	J1201360-007	03/19/12	03/22/12	10ml	10ml	NA	
EB01-03192012	J1201360-008	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0015I-040.0-031920	J1201360-009	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0034-038.5-03202C	J1201360-010	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0019I-040.0-032020	J1201360-011	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0033-048.5-03202C	J1201360-012	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0021I-045.0-032020	J1201360-013	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0035-045.0-03202C	J1201360-014	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0028-040.0-03202C	J1201360-015	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0037-030.0-03202C	J1201360-016	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0017I-030.0-032020	J1201360-017	03/20/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200321-2	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200321-1	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200325
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-MW0032-045.0-03192(	J1201360-001	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0031-045.0-03192(	J1201360-004	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0020I-045.0-031920	J1201360-005	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0039-030.0-03192(	J1201360-006	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0034-038.5-03202(	J1201360-010	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0019I-040.0-032020	J1201360-011	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0035-045.0-03202(	J1201360-014	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0028-040.0-03202(	J1201360-015	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0017I-030.0-032020	J1201360-017	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0014I-040.0-032120	J1201360-018	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0029-045.0-03212(	J1201360-019	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0026-035.0-03212(	J1201360-020	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0022-065.0-03212(	J1201360-021	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0027-045.0-03212(	J1201360-022	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0024-010.0-03212(	J1201360-023	03/21/12	03/22/12	10ml	10ml	NA	
Trip Blank	J1201360-029	03/19/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200325-2	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200325-1	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200333
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-IW0014I-040.0-032120	J1201360-018	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0029-045.0-03212C	J1201360-019	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0026-035.0-03212C	J1201360-020	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0022-065.0-03212C	J1201360-021	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0027-045.0-03212C	J1201360-022	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0025-030.0-03212C	J1201360-024	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0025-030.0-03212C	J1201360-024	03/21/12	03/22/12	10ml	10ml	NA	
CHRE-MW0036-010.0-03202C	J1201360-030	03/20/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200333-4	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200333-3	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Extraction Lot: JWG1200305
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-188849-IDW-03212012	J1201360-025	03/21/12	03/22/12	5.9300g	5mL	84	
CRHE-188797-IDW-03212012	J1201360-026	03/21/12	03/22/12	5.1200g	5mL	88	
CRHE-188842-IDW-03212012	J1201360-027	03/21/12	03/22/12	5.9600g	5mL	83	
CRHE-188838-IDW-03212012	J1201360-028	03/21/12	03/22/12	5.3500g	5mL	81	
Method Blank	JWG1200305-2	NA	NA	5.00g	5ml	100	
Lab Control Sample	JWG1200305-1	NA	NA	5.00g	5ml	100	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

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Volatile Organic Compounds by GC/MS

Validation Package

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Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

QC Reports

p:\Stealth\Crystal.rpt\DividerC.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-MW0032-045.0-03192012	J1201360-001	97	109	99	98
CRHE-MW0030-010.0-03192012	J1201360-002	98	106	98	101
CRHE-MW0023-065.0-03192012	J1201360-003	100	107	99	96
CRHE-MW0031-045.0-03192012	J1201360-004	97	106	100	98
CRHE-IW0020I-045.0-03192012	J1201360-005	96	107	100	99
CRHE-MW0039-030.0-03192012	J1201360-006	99	113	99	97
CRHE-MW0038-010.0-03192012	J1201360-007	100	109	100	100
EB01-03192012	J1201360-008	97	106	99	101
CRHE-IW0015I-040.0-03192012	J1201360-009	101	107	99	100
CRHE-MW0034-038.5-03202012	J1201360-010	99	109	101	98
CRHE-IW0019I-040.0-03202012	J1201360-011	98	105	97	102
CRHE-MW0033-048.5-03202012	J1201360-012	96	109	96	103
CRHE-IW0021I-045.0-03202012	J1201360-013	99	109	99	99
CRHE-MW0035-045.0-03202012	J1201360-014	99	108	98	96
CRHE-MW0028-040.0-03202012	J1201360-015	95	110	98	98
CRHE-MW0037-030.0-03202012	J1201360-016	97	107	99	98
CRHE-IW0017I-030.0-03202012	J1201360-017	97	108	99	100
CRHE-IW0014I-040.0-03212012	J1201360-018	94	107	97	99
CRHE-MW0029-045.0-03212012	J1201360-019	98	112	99	100
CRHE-MW0026-035.0-03212012	J1201360-020	99	108	95	96
CRHE-MW0022-065.0-03212012	J1201360-021	99	107	99	98
CRHE-MW0027-045.0-03212012	J1201360-022	96	107	98	96
CRHE-MW0024-010.0-03212012	J1201360-023	98	107	99	98
CRHE-MW0025-030.0-03212012	J1201360-024	97	111	92	98
Trip Blank	J1201360-029	94	111	97	96
CHRE-MW0036-010.0-03202012	J1201360-030	97	111	97	100
Method Blank	JWG1200321-2	98	105	100	95
Method Blank	JWG1200325-2	99	105	99	98
Method Blank	JWG1200333-4	96	103	97	96
Lab Control Sample	JWG1200321-1	99	107	99	100
Lab Control Sample	JWG1200325-1	94	104	98	97
Lab Control Sample	JWG1200333-3	95	109	97	96

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	72-121
Sur2 =	4-Bromofluorobenzene	86-113
Sur3 =	Dibromofluoromethane	86-112
Sur4 =	Toluene-d8	88-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-188849-IDW-03212012	J1201360-025	94	99	96	101
CRHE-188797-IDW-03212012	J1201360-026	92	102	96	105
CRHE-188842-IDW-03212012	J1201360-027	90	103	91	105
CRHE-188838-IDW-03212012	J1201360-028	94	116	99	108
Method Blank	JWG1200305-2	94	95	96	102
Lab Control Sample	JWG1200305-1	94	97	98	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	80-120
Sur2 = 4-Bromofluorobenzene	64-135
Sur3 = Dibromofluoromethane	74-125
Sur4 = Toluene-d8	46-156

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-02.D
Instrument ID: MS52
Analysis Method: 8260B

Lab Code: JWG1200306-2
Analysis Lot: JWG1200306

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	53,457	11.60	47,863	9.16	122,997	6.17
	Upper Limit ==>	106,914	12.10	95,726	9.66	245,994	6.67
	Lower Limit ==>	26,729	11.10	23,932	8.66	61,499	5.67
	ICAL Result ==>	48,766	11.60	43,592	9.16	110,750	6.17
Associated Analyses							
Lab Control Sample	JWG1200305-1	52,658	11.60	48,614	9.16	125,564	6.17
Method Blank	JWG1200305-2	50,853	11.59	47,975	9.16	125,218	6.17
CRHE-188849-IDW-03212012	J1201360-025	45,168	11.60	46,360	9.16	121,432	6.17
CRHE-188797-IDW-03212012	J1201360-026	40,555	11.60	43,358	9.16	116,772	6.17
CRHE-188842-IDW-03212012	J1201360-027	40,415	11.60	42,767	9.17	117,887	6.17
CRHE-188838-IDW-03212012	J1201360-028	35,955	11.60	42,626	9.16	118,248	6.18

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200322-2
Analysis Lot: JWG1200322

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
Results ==>		328,039	11.12	413,475	8.80	1,184,883	5.51
Upper Limit ==>		656,078	11.62	826,950	9.30	2,369,766	6.01
Lower Limit ==>		164,020	10.62	206,738	8.30	592,442	5.01
ICAL Result ==>		361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200321-1	318,654	11.12	397,222	8.80	1,171,291	5.51
Method Blank	JWG1200321-2	337,907	11.13	403,441	8.80	1,145,808	5.51
CRHE-MW0032-045.0-03192012	J1201360-001	315,754	11.13	399,126	8.80	1,148,047	5.51
CRHE-MW0030-010.0-03192012	J1201360-002	323,166	11.13	392,864	8.80	1,177,874	5.51
CRHE-MW0023-065.0-03192012	J1201360-003	322,551	11.13	384,128	8.80	1,104,427	5.52
CRHE-MW0031-045.0-03192012	J1201360-004	331,420	11.13	396,550	8.80	1,156,645	5.51
CRHE-IW0020I-045.0-03192012	J1201360-005	322,585	11.13	393,897	8.80	1,164,407	5.51
CRHE-MW0039-030.0-03192012	J1201360-006	319,516	11.13	401,946	8.80	1,172,242	5.51
CRHE-MW0038-010.0-03192012	J1201360-007	327,430	11.13	405,589	8.80	1,173,486	5.51
EB01-03192012	J1201360-008	330,521	11.13	389,632	8.80	1,146,764	5.51
CRHE-IW0015I-040.0-03192012	J1201360-009	332,367	11.13	389,217	8.80	1,147,109	5.52
CRHE-MW0034-038.5-03202012	J1201360-010	321,006	11.13	397,996	8.80	1,125,602	5.52
CRHE-IW0019I-040.0-03202012	J1201360-011	316,893	11.13	382,659	8.80	1,133,176	5.51
CRHE-MW0033-048.5-03202012	J1201360-012	324,878	11.13	388,136	8.80	1,169,094	5.52
CRHE-IW0021I-045.0-03202012	J1201360-013	320,327	11.13	393,071	8.80	1,149,686	5.51
CRHE-MW0035-045.0-03202012	J1201360-014	330,706	11.12	409,470	8.80	1,174,443	5.52
CRHE-MW0028-040.0-03202012	J1201360-015	319,532	11.13	409,711	8.80	1,202,891	5.51
CRHE-MW0037-030.0-03202012	J1201360-016	322,399	11.13	400,508	8.80	1,144,939	5.51
CRHE-IW0017I-030.0-03202012	J1201360-017	326,036	11.12	400,878	8.80	1,158,793	5.51

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 09:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200326-2
Analysis Lot: JWG1200326

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	338,282	11.13	419,066	8.80	1,182,437	5.51
	Upper Limit ==>	676,564	11.63	838,132	9.30	2,364,874	6.01
	Lower Limit ==>	169,141	10.63	209,533	8.30	591,219	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200325-1	322,206	11.13	386,918	8.80	1,106,267	5.51
Method Blank	JWG1200325-2	322,051	11.13	383,241	8.80	1,093,788	5.51
Trip Blank	J1201360-029	314,454	11.13	402,969	8.80	1,172,678	5.51
CRHE-MW0032-045.0-03192012D	J1201360-001	317,812	11.13	379,377	8.80	1,119,988	5.51
CRHE-MW0031-045.0-03192012D	J1201360-004	322,770	11.13	395,883	8.80	1,159,224	5.51
CRHE-IW0020I-045.0-03192012D	J1201360-005	319,432	11.13	390,271	8.80	1,120,582	5.51
CRHE-MW0039-030.0-03192012D	J1201360-006	325,142	11.13	389,370	8.80	1,108,624	5.51
CRHE-MW0034-038.5-03202012D	J1201360-010	327,008	11.13	395,803	8.80	1,096,028	5.51
CRHE-IW0019I-040.0-03202012D	J1201360-011	319,532	11.13	392,191	8.80	1,116,694	5.51
CRHE-MW0035-045.0-03202012D	J1201360-014	317,749	11.13	383,466	8.80	1,119,903	5.52
CRHE-MW0028-040.0-03202012D	J1201360-015	320,292	11.13	385,204	8.80	1,151,728	5.51
CRHE-IW0017I-030.0-03202012D	J1201360-017	313,536	11.13	395,840	8.80	1,123,689	5.51
CRHE-MW0027-045.0-03212012	J1201360-022	316,218	11.13	402,165	8.80	1,116,092	5.52
CRHE-MW0022-065.0-03212012	J1201360-021	332,100	11.13	405,929	8.80	1,179,725	5.52
CRHE-MW0026-035.0-03212012	J1201360-020	326,026	11.13	414,330	8.80	1,170,714	5.52
CRHE-MW0029-045.0-03212012	J1201360-019	314,676	11.13	399,293	8.80	1,157,084	5.52
CRHE-IW0014I-040.0-03212012	J1201360-018	324,993	11.13	393,830	8.80	1,133,953	5.52
CRHE-MW0024-010.0-03212012	J1201360-023	318,409	11.13	384,678	8.80	1,105,383	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 11:53

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-03.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200334-2
Analysis Lot: JWG1200334

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	317,277	11.13	383,361	8.80	1,079,939	5.51
	Upper Limit ==>	634,554	11.63	766,722	9.30	2,159,878	6.01
	Lower Limit ==>	158,639	10.63	191,681	8.30	539,970	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200333-3	309,433	11.13	402,331	8.80	1,130,474	5.51
Method Blank	JWG1200333-4	316,138	11.13	389,420	8.80	1,095,457	5.51
CRHE-IW0014I-040.0-03212012RI	J1201360-018	316,659	11.13	370,802	8.80	1,091,211	5.51
CRHE-MW0022-065.0-03212012R	J1201360-021	315,576	11.13	390,002	8.80	1,108,138	5.51
CRHE-MW0029-045.0-03212012D	J1201360-019	301,400	11.13	375,955	8.80	1,085,571	5.51
CRHE-MW0026-035.0-03212012D	J1201360-020	304,045	11.12	375,196	8.80	1,067,834	5.51
CRHE-MW0027-045.0-03212012D	J1201360-022	304,830	11.12	381,443	8.80	1,056,074	5.51
CHRE-MW0036-010.0-03202012	J1201360-030	307,096	11.13	380,864	8.80	1,120,196	5.51
CRHE-MW0025-030.0-03212012	J1201360-024	305,472	11.13	384,814	8.80	1,106,582	5.51
CRHE-MW0025-030.0-03212012D	J1201360-024	313,276	11.13	402,002	8.80	1,159,827	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.8	20.0	99	77-118
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	70-122
1,1,2,2-Tetrachloroethane	20.3	20.0	102	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	20.5	20.0	103	79-117
1,1-Dichloroethene	23.0	20.0	115	72-128
1,2,3-Trichlorobenzene	20.7	20.0	104	62-136
1,2,4-Trichlorobenzene	19.2	20.0	96	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.5	20.0	82	60-122
1,2-Dibromoethane (EDB)	18.7	20.0	93	76-118
1,2-Dichlorobenzene	20.5	20.0	103	81-115
1,2-Dichloroethane (EDC)	19.9	20.0	100	70-117
1,2-Dichloropropane	21.6	20.0	108	79-117
1,3-Dichlorobenzene	21.5	20.0	107	82-116
1,4-Dichlorobenzene	20.9	20.0	105	82-115
2-Butanone (MEK)	102	100	102	62-138
2-Hexanone	93.2	100	93	74-127
4-Methyl-2-pentanone (MIBK)	96.1	100	96	77-120
Acetone	88.3	100	88	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.6	20.0	98	78-118
Bromodichloromethane	20.2	20.0	101	75-118
Bromoform	19.2	20.0	96	63-121
Bromomethane	19.1	20.0	95	31-153
Carbon Disulfide	119	100	119	72-128
Carbon Tetrachloride	18.3	20.0	91	67-124
Chlorobenzene	20.7	20.0	103	83-118
Chloroethane	21.5	20.0	107	68-132
Chloroform	19.6	20.0	98	77-116
Chloromethane	24.8	20.0	124	60-128
cis-1,2-Dichloroethene	21.5	20.0	108	78-117
cis-1,3-Dichloropropene	20.9	20.0	105	80-119
Cyclohexane	20.3	20.0	102	75-124
Dibromochloromethane	19.4	20.0	97	74-121
Dichlorodifluoromethane	22.1	20.0	111	49-132
Ethylbenzene	21.8	20.0	109	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	24.0	20.0	120 *	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	19.4	20.0	97	50-137
Methyl tert-Butyl Ether	20.0	20.0	100	73-118
Methylene Chloride	20.5	20.0	103	75-123
o-Xylene	21.3	20.0	106	80-119
Styrene	20.9	20.0	105	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	20.9	20.0	104	75-121
trans-1,3-Dichloropropene	19.7	20.0	98	76-118
Trichloroethene (TCE)	20.6	20.0	103	78-122
Trichlorofluoromethane	20.3	20.0	101	58-134
Trichlorotrifluoroethane	21.4	20.0	107	77-128
Vinyl Chloride	21.4	20.0	107	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

	Lab Control Sample JWG1200325-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	19.4	20.0	97	77-118
1,1,1-Trichloroethane (TCA)	20.2	20.0	101	70-122
1,1,2,2-Tetrachloroethane	21.1	20.0	106	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	21.2	20.0	106	79-117
1,1-Dichloroethene	23.6	20.0	118	72-128
1,2,3-Trichlorobenzene	19.5	20.0	98	62-136
1,2,4-Trichlorobenzene	18.7	20.0	93	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.7	20.0	83	60-122
1,2-Dibromoethane (EDB)	19.1	20.0	96	76-118
1,2-Dichlorobenzene	20.3	20.0	101	81-115
1,2-Dichloroethane (EDC)	19.8	20.0	99	70-117
1,2-Dichloropropane	21.5	20.0	108	79-117
1,3-Dichlorobenzene	21.0	20.0	105	82-116
1,4-Dichlorobenzene	21.0	20.0	105	82-115
2-Butanone (MEK)	99.8	100	100	62-138
2-Hexanone	94.3	100	94	74-127
4-Methyl-2-pentanone (MIBK)	95.0	100	95	77-120
Acetone	86.2	100	86	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.4	20.0	97	78-118
Bromodichloromethane	20.9	20.0	104	75-118
Bromoform	20.2	20.0	101	63-121
Bromomethane	19.4	20.0	97	31-153
Carbon Disulfide	121	100	121	72-128
Carbon Tetrachloride	19.3	20.0	96	67-124
Chlorobenzene	20.3	20.0	101	83-118
Chloroethane	22.3	20.0	112	68-132
Chloroform	20.5	20.0	102	77-116
Chloromethane	25.2	20.0	126	60-128
cis-1,2-Dichloroethene	21.7	20.0	108	78-117
cis-1,3-Dichloropropene	20.7	20.0	104	80-119
Cyclohexane	20.8	20.0	104	75-124
Dibromochloromethane	19.5	20.0	97	74-121
Dichlorodifluoromethane	22.3	20.0	111	49-132
Ethylbenzene	21.1	20.0	105	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

	Lab Control Sample JWG1200325-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	23.8	20.0	119	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	18.4	20.0	92	50-137
Methyl tert-Butyl Ether	20.8	20.0	104	73-118
Methylene Chloride	21.2	20.0	106	75-123
o-Xylene	21.4	20.0	107	80-119
Styrene	21.2	20.0	106	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	21.2	20.0	106	75-121
trans-1,3-Dichloropropene	19.9	20.0	100	76-118
Trichloroethene (TCE)	20.8	20.0	104	78-122
Trichlorofluoromethane	21.2	20.0	106	58-134
Trichlorotrifluoroethane	22.4	20.0	112	77-128
Vinyl Chloride	22.0	20.0	110	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

	Lab Control Sample JWG1200333-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.9	20.0	95	77-118
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	70-122
1,1,2,2-Tetrachloroethane	19.6	20.0	98	66-135
1,1,2-Trichloroethane	19.4	20.0	97	75-122
1,1-Dichloroethane	20.4	20.0	102	79-117
1,1-Dichloroethene	22.4	20.0	112	72-128
1,2,3-Trichlorobenzene	19.2	20.0	96	62-136
1,2,4-Trichlorobenzene	17.9	20.0	89	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.1	20.0	81	60-122
1,2-Dibromoethane (EDB)	18.2	20.0	91	76-118
1,2-Dichlorobenzene	19.6	20.0	98	81-115
1,2-Dichloroethane (EDC)	20.0	20.0	100	70-117
1,2-Dichloropropane	21.1	20.0	105	79-117
1,3-Dichlorobenzene	20.9	20.0	105	82-116
1,4-Dichlorobenzene	20.4	20.0	102	82-115
2-Butanone (MEK)	98.5	100	99	62-138
2-Hexanone	91.0	100	91	74-127
4-Methyl-2-pentanone (MIBK)	92.1	100	92	77-120
Acetone	90.0	100	90	42-161
Benzene	20.5	20.0	102	80-117
Bromochloromethane	18.7	20.0	94	78-118
Bromodichloromethane	20.6	20.0	103	75-118
Bromoform	18.3	20.0	92	63-121
Bromomethane	17.8	20.0	89	31-153
Carbon Disulfide	114	100	114	72-128
Carbon Tetrachloride	17.7	20.0	88	67-124
Chlorobenzene	19.7	20.0	98	83-118
Chloroethane	19.9	20.0	100	68-132
Chloroform	19.7	20.0	98	77-116
Chloromethane	21.6	20.0	108	60-128
cis-1,2-Dichloroethene	20.9	20.0	104	78-117
cis-1,3-Dichloropropene	19.6	20.0	98	80-119
Cyclohexane	19.8	20.0	99	75-124
Dibromochloromethane	18.4	20.0	92	74-121
Dichlorodifluoromethane	19.8	20.0	99	49-132
Ethylbenzene	20.8	20.0	104	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

	Lab Control Sample JWG1200333-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.1	20.0	120 *	78-119
m,p-Xylenes	41.0	40.0	102	79-122
Methyl Acetate	19.1	20.0	95	50-137
Methyl tert-Butyl Ether	19.8	20.0	99	73-118
Methylene Chloride	20.0	20.0	100	75-123
o-Xylene	20.2	20.0	101	80-119
Styrene	19.9	20.0	99	80-121
Tetrachloroethene (PCE)	18.9	20.0	94	75-126
Toluene	20.0	20.0	100	52-152
trans-1,2-Dichloroethene	20.1	20.0	100	75-121
trans-1,3-Dichloropropene	19.3	20.0	96	76-118
Trichloroethene (TCE)	20.3	20.0	101	78-122
Trichlorofluoromethane	18.9	20.0	95	58-134
Trichlorotrifluoroethane	20.0	20.0	100	77-128
Vinyl Chloride	19.6	20.0	98	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.1	20.0	90	71-124
1,1,1-Trichloroethane (TCA)	17.4	20.0	87	72-131
1,1,2,2-Tetrachloroethane	17.4	20.0	87	51-136
1,1,2-Trichloroethane	18.4	20.0	92	74-113
1,1-Dichloroethane	18.3	20.0	92	74-124
1,1-Dichloroethene	16.0	20.0	80	67-128
1,2,3-Trichlorobenzene	18.9	20.0	94	64-129
1,2,4-Trichlorobenzene	18.7	20.0	93	61-135
1,2-Dibromo-3-chloropropane (DBCP)	17.4	20.0	87	54-129
1,2-Dibromoethane (EDB)	18.2	20.0	91	74-114
1,2-Dichlorobenzene	18.6	20.0	93	74-111
1,2-Dichloroethane (EDC)	17.7	20.0	88	74-120
1,2-Dichloropropane	18.3	20.0	91	77-119
1,3-Dichlorobenzene	18.5	20.0	93	74-114
1,4-Dichlorobenzene	18.7	20.0	93	72-112
2-Butanone (MEK)	87.5	100	87	55-136
2-Hexanone	88.0	100	88	60-127
4-Methyl-2-pentanone (MIBK)	90.1	100	90	64-122
Acetone	83.4	100	83	30-164
Benzene	18.2	20.0	91	76-123
Bromochloromethane	19.0	20.0	95	75-124
Bromodichloromethane	17.1	20.0	85	74-124
Bromoform	16.8	20.0	84	58-126
Bromomethane	18.5	20.0	92	25-175
Carbon Disulfide	110	100	110	62-134
Carbon Tetrachloride	16.0	20.0	80	68-134
Chlorobenzene	19.0	20.0	95	74-116
Chloroethane	17.5	20.0	88	64-131
Chloroform	17.1	20.0	86	75-120
Chloromethane	16.6	20.0	83	59-138
cis-1,2-Dichloroethene	18.4	20.0	92	74-122
cis-1,3-Dichloropropene	18.5	20.0	93	75-115
Cyclohexane	19.3	20.0	96	70-127
Dibromochloromethane	16.7	20.0	83	67-123
Dichlorodifluoromethane	17.1	20.0	86	51-150
Ethylbenzene	18.9	20.0	95	71-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

Analyte Name	Lab Control Sample JWG1200305-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	20.9	20.0	105	67-124
m,p-Xylenes	38.0	40.0	95	71-122
Methyl Acetate	16.6	20.0	83	25-160
Methyl tert-Butyl Ether	18.1	20.0	90	72-121
Methylene Chloride	16.6	20.0	83	60-140
o-Xylene	18.3	20.0	92	71-120
Styrene	19.1	20.0	95	70-122
Tetrachloroethene (PCE)	18.9	20.0	95	69-124
Toluene	18.7	20.0	93	72-118
trans-1,2-Dichloroethene	17.6	20.0	88	71-127
trans-1,3-Dichloropropene	17.6	20.0	88	73-115
Trichloroethene (TCE)	18.4	20.0	92	70-129
Trichlorofluoromethane	17.4	20.0	87	67-129
Trichlorotrifluoroethane	17.7	20.0	89	66-131
Vinyl Chloride	18.9	20.0	95	62-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 13:10

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-06.D

Level: Low
Extraction Lot: JWG1200321

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/12	11:42
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 11:20

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-06.D

Level: Low
Extraction Lot: JWG1200325

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/12	09:51
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	04/03/2012
Sample Matrix:	Water	**Date Analyzed:**	04/03/2012
		Time Analyzed:	13:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS53
Lab Code:	JWG1200333-4	**File ID:**	J:\MS53\DATA\MS53-120403\0403-07.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200333

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/12	12:25
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/22/2012
Sample Matrix:	Soil	**Date Analyzed:**	03/22/2012
		Time Analyzed:	11:28

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS52
Lab Code:	JWG1200305-2	**File ID:**	J:\MS52\DATA\MS52-120322\0322-05.D
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200305

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/12	10:14
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 11:42

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/12	13:10
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 09:51

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/12	11:20
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	04/03/2012
Sample Matrix:	Water	**Date Analyzed:**	04/03/2012
		Time Analyzed:	12:25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	MS53
Lab Code:	JWG1200333-3	**File ID:**	J:\MS53\DATA\MS53-120403\0403-04.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200333

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/12	13:53
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012
Time Analyzed: 10:14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Instrument ID: MS52
File ID: J:\MS52\DATA\MS52-120322\0322-03.D

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200305

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/12	11:28
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Raw Data

p:\Stealth\Crystal.rpt\DividerD.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.54**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**0.57**	I	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.62**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**6.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**13**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**0.31**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.30**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.71**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**8.2**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**83**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**5.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**0.70**	I	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.46**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.21**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**59**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**6.0**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**200**		10	2.2	10	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.49**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**33**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**0.92**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**79**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.49**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**0.96**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.50**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.43**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**92**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	113	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	97	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**2.0**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.21**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**76**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**27**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.36**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**3.4**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**12**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.2**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**140**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**150**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	101	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**4.1**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.48**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.3**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**1000**		20	7.2	20	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.3**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.25**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**18**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**530**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	97	86-112	03/30/12	Acceptable
Toluene-d8	102	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.92**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**9.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.42**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**99**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**3.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**1.4**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**0.52**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**33**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	96	86-112	03/30/12	Acceptable
Toluene-d8	103	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.98**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.26**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.55**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.23**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.44**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.59**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.31**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**4.2**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**3.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.55**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**4.1**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**180**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	110	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.2**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.44**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**8.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.20**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**19**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.32**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.52**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**90**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**4.0**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**3.6**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	99	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**1.4**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**1.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**420**		10	3.6	10	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**13**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**140**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**100**		10	2.2	10	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	112	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	100	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**3.5**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**9.1**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**6.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**0.41**	I	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**3600**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**0.22**	I	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.36**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**34**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1000**		100	16	100	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**2000**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	108	86-113	04/02/12	Acceptable
Dibromofluoromethane	95	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**0.51**	I	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**1.5**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.22**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	99	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**0.96**	I	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**2.7**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**790**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.22**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**14**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**1700**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	11		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**0.74**	I	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**13**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**2.2**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**15**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**9700**		200	72	200	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**0.41**	I	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**75**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.60**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**7600**		200	44	200	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	92	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/02/12	Acceptable
Dibromofluoromethane	97	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	100	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	95	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	105	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	103	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**19.8**		1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	**19.6**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	**20.3**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	**19.6**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**20.5**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**23.0**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	**20.7**		10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	**19.2**		10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	**16.5**		5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	**18.7**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	**20.5**		1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	**19.9**		1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	**21.6**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	**21.5**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	**20.9**		1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	**102**		10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	**93.2**		25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	**96.1**		25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**88.3**		50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**21.4**		1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	**19.6**		5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**20.2**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	**19.2**		2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	**19.1**		5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	**119**		10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	**18.3**		1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**20.7**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	**21.5**		5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**19.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	**24.8**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**21.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	**20.9**		1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**20.3**		10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**19.4**		1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**22.1**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**21.8**		1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	**24.0**		1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
m,p-Xylenes	**44.3**		2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	**19.4**		10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	**20.0**		2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**20.5**		5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	**21.3**		1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	**20.9**		1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	**20.2**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**21.1**		1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**20.9**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	**19.7**		1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**20.6**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	**20.3**		20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	**21.4**		20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**21.4**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**19.4**		1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	**20.2**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	**21.1**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	**19.6**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**21.2**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**23.6**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	**19.5**		10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	**18.7**		10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	**16.7**		5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	**19.1**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	**20.3**		1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	**19.8**		1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	**21.5**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	**21.0**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	**21.0**		1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	**99.8**		10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	**94.3**		25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	**95.0**		25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	**86.2**		50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	**21.4**		1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	**19.4**		5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**20.9**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	**20.2**		2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	**19.4**		5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	**121**		10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	**19.3**		1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	**20.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	**22.3**		5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**20.5**		1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	**25.2**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**21.7**		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	**20.7**		1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	**20.8**		10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	**19.5**		1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	**22.3**		20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**21.1**		1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	**23.8**		1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	**44.3**		2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	**18.4**		10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	**20.8**		2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**21.2**		5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	**21.4**		1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	**21.2**		1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	**20.2**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**21.1**		1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**21.2**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	**19.9**		1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**20.8**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	**21.2**		20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	**22.4**		20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**22.0**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	104	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	97	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**18.9**		1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	**19.5**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	**19.6**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	**19.4**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**20.4**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**22.4**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	**19.2**		10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	**17.9**		10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	**16.1**		5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	**18.2**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	**19.6**		1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	**20.0**		1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	**21.1**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	**20.9**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	**20.4**		1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	**98.5**		10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	**91.0**		25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	**92.1**		25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	**90.0**		50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	**20.5**		1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	**18.7**		5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	**20.6**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	**18.3**		2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	**17.8**		5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	**114**		10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	**17.7**		1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	**19.7**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	**19.9**		5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**19.7**		1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	**21.6**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**20.9**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	**19.6**		1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	**19.8**		10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	**18.4**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**19.8**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**20.8**		1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	**24.1**		1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
m,p-Xylenes	**41.0**		2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	**19.1**		10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	**19.8**		2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	**20.0**		5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	**20.2**		1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	**19.9**		1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	**18.9**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**20.0**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**20.1**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	**19.3**		1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**20.3**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	**18.9**	I	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	**20.0**		20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**19.6**		1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	109	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	99	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.24	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.6	0.33	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.6	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.44	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	28	1.0	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.62	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.65	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	140	3.9	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.6	0.077	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	12	0.46	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.6	0.26	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.6	0.30	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.28	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.25	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.6	0.070	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**2.0**	I	56	0.17	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.6	0.082	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.6	0.56	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.6	0.20	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	23	0.29	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	23	0.28	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.6	0.27	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	102	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	22	I	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	103	64-135	03/22/12	Acceptable
Dibromofluoromethane	91	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.8	0.25	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.8	0.34	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.8	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.21	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.45	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	29	1.1	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.64	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.67	1	03/22/12	03/22/12	JWG1200305	
Acetone	**17**	I	150	4.1	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.8	0.080	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**2.1**	I	12	0.48	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.8	0.27	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.8	0.32	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.29	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.26	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.8	0.073	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	58	0.18	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.8	0.085	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.8	0.58	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.8	0.21	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	24	0.30	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	24	0.29	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.8	0.28	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	116	64-135	03/22/12	Acceptable
Dibromofluoromethane	99	74-125	03/22/12	Acceptable
Toluene-d8	108	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	95	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	102	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**18.1**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	**17.4**		5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	**17.4**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	**18.4**		5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	**18.3**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	**16.0**		5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	**18.9**		10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	**18.7**		10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	**17.4**		10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	**18.2**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	**18.6**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	**17.7**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	**18.3**		5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	**18.5**		5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	**18.7**		5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	**87.5**		25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	**88.0**		10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	**90.1**		10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	**83.4**	I	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	**18.2**		5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	**19.0**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	**17.1**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	**16.8**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	**18.5**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**110**		10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	**16.0**		5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	**19.0**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	**17.5**		5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	**17.1**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	**16.6**		5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	**18.4**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	**18.5**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	**19.3**		10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	**16.7**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	**17.1**	I	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**18.9**		5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	**20.9**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	**38.0**		10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	**16.6**		10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	**18.1**		5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**16.6**	I	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	**18.3**		5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	**19.1**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	**18.9**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	**18.7**		5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	**17.6**		5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	**17.6**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	**18.4**		5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	**17.4**	I	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	**17.7**	I	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	**18.9**		5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	97	64-135	03/22/12	Acceptable
Dibromofluoromethane	98	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Standards Data

n:\Stealth\Crystal.rpt\DividerE.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:17

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-01.D
Instrument ID: MS52
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200306

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.1	3056	PASS
75	95	30	60	44.7	9053	PASS
95	95	100	100	100.0	20275	PASS
96	95	5	9	6.8	1378	PASS
173	174	0	2	0.4	78	PASS
174	95	50	120	93.5	18957	PASS
175	174	5	9	7.2	1370	PASS
176	174	95	101	98.9	18742	PASS
177	176	5	9	6.5	1226	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200306-2	J:\MS52\DATA\MS52-120322\0322-02.D	03/22/2012	09:45	
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/2012	10:14	
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/2012	11:28	
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/2012	18:20	
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/2012	18:48	
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/2012	19:17	
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/2012	19:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 10:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200322

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.2	25176	PASS
75	95	30	60	33.7	55912	PASS
95	95	100	100	100.0	166080	PASS
96	95	5	9	6.4	10595	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.7	150592	PASS
175	174	5	9	7.5	11247	PASS
176	174	95	101	95.4	143616	PASS
177	176	5	9	6.0	8649	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200322-2	J:\MS53\DATA\MS53-120330\0330-02.D	03/30/2012	11:12	
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/2012	11:42	
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/2012	13:10	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/2012	13:40	
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/2012	14:10	
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/2012	14:40	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/2012	15:09	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/2012	15:39	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/2012	16:09	
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/2012	16:39	
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/2012	17:09	
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/2012	17:39	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/2012	18:09	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/2012	18:39	
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/2012	19:09	
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/2012	19:39	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/2012	20:09	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/2012	20:39	
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/2012	21:08	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/2012	21:38	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 08:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200326

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	37064	PASS
75	95	30	60	35.7	80421	PASS
95	95	100	100	100.0	225429	PASS
96	95	5	9	6.5	14647	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.9	180139	PASS
175	174	5	9	7.7	13885	PASS
176	174	95	101	96.2	173248	PASS
177	176	5	9	6.3	10928	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200326-2	J:\MS53\DATA\MS53-120402\0402-02.D	04/02/2012	09:21	
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/2012	09:51	
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/2012	11:20	
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/2012	11:50	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/2012	12:20	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/2012	12:49	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/2012	13:20	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/2012	13:50	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/2012	14:20	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/2012	14:50	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/2012	15:19	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/2012	15:49	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/2012	16:19	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/2012	16:49	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/2012	17:19	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/2012	17:49	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/2012	18:19	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/2012	18:49	
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/2012	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 10:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200334

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.8	34616	PASS
75	95	30	60	36.5	75304	PASS
95	95	100	100	100.0	206165	PASS
96	95	5	9	6.5	13426	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	74.0	152600	PASS
175	174	5	9	8.1	12319	PASS
176	174	95	101	95.9	146363	PASS
177	176	5	9	6.7	9745	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200334-2	J:\MS53\DATA\MS53-120403\0403-03.D	04/03/2012	11:53	
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/2012	12:25	
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/2012	13:53	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/2012	14:23	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/2012	14:52	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/2012	15:22	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/2012	15:51	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/2012	16:21	
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/2012	16:50	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/2012	17:20	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/2012	18:18	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS52\DATA\MS52-120227\0227-04.D	F	J:\MS52\DATA\MS52-120227\0227-09.D
B	J:\MS52\DATA\MS52-120227\0227-05.D	G	J:\MS52\DATA\MS52-120227\0227-10.D
C	J:\MS52\DATA\MS52-120227\0227-06.D	H	J:\MS52\DATA\MS52-120227\0227-11.D
D	J:\MS52\DATA\MS52-120227\0227-07.D	I	J:\MS52\DATA\MS52-120227\0227-12.D
E	J:\MS52\DATA\MS52-120227\0227-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	1.06	B	2.0	1.07	C	5.0	1.09	D	10	1.16	E	20	1.24
	F	50	1.29	G	100	1.41	H	150	1.24	I	200	1.35			
1,1,1-Trichloroethane (TCA)	A	1.0	0.672	B	2.0	0.693	C	5.0	0.706	D	10	0.709	E	20	0.843
	F	50	0.863	G	100	0.927	H	150	0.774	I	200	0.890			
1,1,2,2-Tetrachloroethane	A	1.0	0.996	B	2.0	0.870	C	5.0	0.993	D	10	0.943	E	20	0.984
	F	50	1.03	G	100	1.16	H	150	1.08	I	200	1.03			
1,1,2-Trichloroethane	A	1.0	0.650	B	2.0	0.651	C	5.0	0.608	D	10	0.664	E	20	0.665
	F	50	0.704	G	100	0.758	H	150	0.685	I	200	0.694			
1,1-Dichloroethane	A	1.0	0.636	B	2.0	0.665	C	5.0	0.745	D	10	0.712	E	20	0.795
	F	50	0.787	G	100	0.830	H	150	0.727	I	200	0.812			
1,1-Dichloroethene	A	1.0	0.518	B	2.0	0.546	C	5.0	0.598	D	10	0.564	E	20	0.676
	F	50	0.699	G	100	0.729	H	150	0.616	I	200	0.713			
1,2,3-Trichlorobenzene							C	5.0	1.51	D	10	1.53	E	20	1.65
	F	50	1.68	G	100	1.88	H	150	1.79	I	200	1.79			
1,2,4-Trichlorobenzene							C	5.0	1.78	D	10	1.65	E	20	1.85
	F	50	1.95	G	100	2.14	H	150	2.02	I	200	2.06			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.201	D	10	0.207	E	20	0.215
	F	50	0.224	G	100	0.265	H	150	0.268	I	200	0.246			
1,2-Dibromoethane (EDB)	A	1.0	0.828	B	2.0	0.746	C	5.0	0.831	D	10	0.838	E	20	0.879
	F	50	0.910	G	100	1.02	H	150	0.922	I	200	0.926			
1,2-Dichlorobenzene	A	1.0	2.20	B	2.0	2.23	C	5.0	2.29	D	10	2.27	E	20	2.42
	F	50	2.48	G	100	2.75	H	150	2.54	I	200	2.57			
1,2-Dichloroethane (EDC)	A	1.0	0.451	B	2.0	0.543	C	5.0	0.534	D	10	0.526	E	20	0.550
	F	50	0.559	G	100	0.594	H	150	0.529	I	200	0.541			
1,2-Dichloroethane-d4	A	50	0.259	B	50	0.263	C	50	0.260	D	50	0.257	E	50	0.250
	F	50	0.246	G	50	0.250	H	50	0.238	I	50	0.232			
1,2-Dichloropropane	A	1.0	0.317	B	2.0	0.359	C	5.0	0.385	D	10	0.389	E	20	0.419
	F	50	0.414	G	100	0.449	H	150	0.398	I	200	0.432			
1,3-Dichlorobenzene	A	1.0	2.49	B	2.0	2.45	C	5.0	2.50	D	10	2.50	E	20	2.68
	F	50	2.78	G	100	2.98	H	150	2.75	I	200	2.89			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	2.55	B	2.0	2.49	C	5.0	2.54	D	10	2.51	E	20	2.68
	F	50	2.71	G	100	2.93	H	150	2.66	I	200	2.76			
2-Butanone (MEK)	A	5.0	0.110	B	10	0.121	C	25	0.134	D	50	0.129	E	100	0.122
	F	250	0.126	G	500	0.137	H	750	0.133	I	1000	0.120			
2-Hexanone	A	5.0	0.483	B	10	0.458	C	25	0.508	D	50	0.502	E	100	0.493
	F	250	0.519	G	500	0.587	H	750	0.567	I	1000	0.513			
4-Bromofluorobenzene	A	50	0.871	B	50	0.864	C	50	0.864	D	50	0.885	E	50	0.872
	F	50	0.901	G	50	0.940	H	50	1.01	I	50	1.05			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.687	B	10	0.676	C	25	0.718	D	50	0.734	E	100	0.712
	F	250	0.727	G	500	0.822	H	750	0.779	I	1000	0.708			
Acetone	A	5.0	0.109	B	10	0.114	C	25	0.0910	D	50	0.0862	E	100	0.0760
	F	250	0.0764	G	500	0.0848	H	750	0.0801	I	1000	0.0729			
Benzene	A	1.0	1.64	B	2.0	1.61	C	5.0	1.72	D	10	1.63	E	20	1.81
	F	50	1.84	G	100	1.93	H	150	1.66	I	200	1.84			
Bromochloromethane	A	1.0	0.229	B	2.0	0.251	C	5.0	0.275	D	10	0.266	E	20	0.289
	F	50	0.281	G	100	0.280	H	150	0.254	I	200	0.262			
Bromodichloromethane	A	1.0	0.550	B	2.0	0.529	C	5.0	0.562	D	10	0.550	E	20	0.610
	F	50	0.623	G	100	0.668	H	150	0.599	I	200	0.632			
Bromoform	A	1.0	0.578	B	2.0	0.610	C	5.0	0.604	D	10	0.656	E	20	0.670
	F	50	0.738	G	100	0.832	H	150	0.780	I	200	0.769			
Bromomethane	A	1.0	0.210	B	2.0	0.245	C	5.0	0.239	D	10	0.240	E	20	0.289
	F	50	0.312	G	100	0.316	H	150	0.267	I	200	0.285			
Carbon Disulfide	A	5.0	0.950	B	10	0.925	C	25	0.995	D	50	0.961	E	100	1.11
	F	250	1.12	G	500	1.16	H	750	0.967	I	1000	1.12			
Carbon Tetrachloride	A	1.0	0.499	B	2.0	0.583	C	5.0	0.602	D	10	0.603	E	20	0.705
	F	50	0.755	G	100	0.804	H	150	0.676	I	200	0.775			
Chlorobenzene	A	1.0	2.91	B	2.0	3.04	C	5.0	3.14	D	10	3.18	E	20	3.41
	F	50	3.49	G	100	3.79	H	150	3.26	I	200	3.61			
Chloroethane	A	1.0	0.284	B	2.0	0.292	C	5.0	0.287	D	10	0.265	E	20	0.321
	F	50	0.322	G	100	0.335	H	150	0.285	I	200	0.325			
Chloroform	A	1.0	0.865	B	2.0	0.772	C	5.0	0.799	D	10	0.779	E	20	0.844
	F	50	0.850	G	100	0.904	H	150	0.787	I	200	0.854			
Chloromethane	A	1.0	0.480	B	2.0	0.498	C	5.0	0.522	D	10	0.490	E	20	0.602
	F	50	0.595	G	100	0.630	H	150	0.530	I	200	0.616			
cis-1,2-Dichloroethene	A	1.0	0.521	B	2.0	0.547	C	5.0	0.560	D	10	0.524	E	20	0.600
	F	50	0.608	G	100	0.638	H	150	0.550	I	200	0.612			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	1.59	B	2.0	1.51	C	5.0	1.57	D	10	1.55	E	20	1.74
	F	50	1.82	G	100	1.96	H	150	1.77	I	200	1.89			
Cyclohexane	A	1.0	0.520	B	2.0	0.584	C	5.0	0.628	D	10	0.623	E	20	0.741
	F	50	0.762	G	100	0.817	H	150	0.690	I	200	0.796			
Dibromochloromethane	A	1.0	0.936	B	2.0	0.974	C	5.0	1.04	D	10	1.01	E	20	1.10
	F	50	1.15	G	100	1.28	H	150	1.15	I	200	1.20			
Dibromofluoromethane	A	50	0.243	B	50	0.248	C	50	0.245	D	50	0.244	E	50	0.243
	F	50	0.240	G	50	0.232	H	50	0.237	I	50	0.232			
Dichlorodifluoromethane	A	1.0	0.485	B	2.0	0.502	C	5.0	0.513	D	10	0.488	E	20	0.600
	F	50	0.618	G	100	0.650	H	150	0.531	I	200	0.602			
Ethylbenzene	A	1.0	4.98	B	2.0	4.98	C	5.0	5.31	D	10	5.29	E	20	6.02
	F	50	6.24	G	100	6.74	H	150	5.77	I	200	6.43			
Isopropylbenzene	A	1.0	3.99	B	2.0	4.07	C	5.0	4.52	D	10	4.56	E	20	5.01
	F	50	5.26	G	100	5.79	H	150	5.23	I	200	5.74			
m,p-Xylenes	A	2.0	3.98	B	4.0	3.87	C	10	4.20	D	20	4.25	E	40	4.83
	F	100	4.88	G	200	5.27	H	300	4.48	I	400	4.97			
Methyl Acetate	A	1.0	0.534	B	2.0	0.515	C	5.0	0.528	D	10	0.519	E	20	0.510
	F	50	0.481	G	100	0.537	H	150	0.506	I	200	0.458			
Methyl tert-Butyl Ether	A	1.0	1.04	B	2.0	1.05	C	5.0	1.05	D	10	1.01	E	20	1.05
	F	50	1.10	G	100	1.17	H	150	1.11	I	200	1.10			
Methylene Chloride	A	1.0	0.840	B	2.0	0.616	C	5.0	0.514	D	10	0.453	E	20	0.512
	F	50	0.493	G	100	0.481	H	150	0.436	I	200	0.449			
o-Xylene	A	1.0	4.45	B	2.0	4.11	C	5.0	4.44	D	10	4.38	E	20	4.91
	F	50	5.04	G	100	5.37	H	150	4.67	I	200	5.10			
Styrene	A	1.0	2.66	B	2.0	3.13	C	5.0	3.22	D	10	3.25	E	20	3.70
	F	50	3.83	G	100	4.21	H	150	3.67	I	200	3.99			
Tetrachloroethene (PCE)	A	1.0	0.932	B	2.0	0.963	C	5.0	1.08	D	10	1.05	E	20	1.21
	F	50	1.23	G	100	1.32	H	150	1.11	I	200	1.27			
Toluene	A	1.0	4.59	B	2.0	4.55	C	5.0	4.69	D	10	4.68	E	20	5.27
	F	50	5.33	G	100	5.73	H	150	4.91	I	200	5.46			
Toluene-d8	A	50	2.51	B	50	2.46	C	50	2.44	D	50	2.46	E	50	2.50
	F	50	2.47	G	50	2.52	H	50	2.45	I	50	2.52			
trans-1,2-Dichloroethene	A	1.0	0.580	B	2.0	0.560	C	5.0	0.577	D	10	0.557	E	20	0.650
	F	50	0.639	G	100	0.679	H	150	0.577	I	200	0.661			
trans-1,3-Dichloropropene	A	1.0	1.40	B	2.0	1.47	C	5.0	1.44	D	10	1.45	E	20	1.54
	F	50	1.64	G	100	1.85	H	150	1.67	I	200	1.74			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.417	B	2.0	0.448	C	5.0	0.503	D	10	0.491	E	20	0.550
	F	50	0.557	G	100	0.591	H	150	0.512	I	200	0.578			
Trichlorofluoromethane	A	1.0	0.748	B	2.0	0.708	C	5.0	0.742	D	10	0.720	E	20	0.879
	F	50	0.881	G	100	0.938	H	150	0.779	I	200	0.893			
Trichlorotrifluoroethane	A	1.0	0.330	B	2.0	0.332	C	5.0	0.376	D	10	0.372	E	20	0.452
	F	50	0.462	G	100	0.471	H	150	0.393	I	200	0.453			
Vinyl Chloride	A	1.0	0.369	B	2.0	0.439	C	5.0	0.448	D	10	0.423	E	20	0.496
	F	50	0.465	G	100	0.461	H	150	0.365	I	200	0.444			

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Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	10.3		≤ 15	1.21		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.3		≤ 15	0.786		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	8.1		≤ 15	1.01		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	6.2		≤ 15	0.675		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.0		≤ 15	0.745		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	12.4		≤ 15	0.629		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	8.1		≤ 15	1.69		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	9.0		≤ 15	1.92		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	11.8		≤ 15	0.232		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	8.9		≤ 15	0.878		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	2.42		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	7.1		≤ 15	0.536		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	4.2		≤ 15	0.251		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	10.1		≤ 15	0.396		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	2.67		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	5.3		≤ 15	2.65		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	6.7		≤ 15	0.126		0.01
2-Hexanone	MS	AverageRF	% RSD	7.8		≤ 15	0.514		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.6		≤ 15	0.918		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.3		≤ 15	0.729		0.01
Acetone	MS	Linear	R2	0.994		≥ 0.99	0.0878		0.01
Benzene	MS	AverageRF	% RSD	6.7		≤ 15	1.74		0.01
Bromochloromethane	MS	AverageRF	% RSD	7.0		≤ 15	0.265		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.8		≤ 15	0.592		0.01
† Bromoform	MS	AverageRF	% RSD	12.9		≤ 15	0.693		0.1
Bromomethane	MS	AverageRF	% RSD	13.5		≤ 15	0.267		0.01
Carbon Disulfide	MS	AverageRF	% RSD	8.9		≤ 15	1.03		0.01
Carbon Tetrachloride	MS	Linear	R2	0.993		≥ 0.99	0.667		0.01
† Chlorobenzene	MS	AverageRF	% RSD	8.6		≤ 15	3.32		0.3
Chloroethane	MS	AverageRF	% RSD	8.1		≤ 15	0.302		0.01
‡ Chloroform	MS	AverageRF	% RSD	5.5		≤ 15	0.828		0.01
† Chloromethane	MS	AverageRF	% RSD	10.7		≤ 15	0.551		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	7.3		≤ 15	0.573		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	9.5		≤ 15	1.71		0.01
Cyclohexane	MS	AverageRF	% RSD	14.9		≤ 15	0.684		0.01
Dibromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	1.09		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.3		≤ 15	0.241		
Dichlorodifluoromethane	MS	AverageRF	% RSD	11.4		≤ 15	0.554		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	11.2		≤ 15	5.75		0.01
Isopropylbenzene	MS	AverageRF	% RSD	13.5		≤ 15	4.91		0.01
m,p-Xylenes	MS	AverageRF	% RSD	10.7		≤ 15	4.53		0.01
Methyl Acetate	MS	AverageRF	% RSD	5.1		≤ 15	0.510		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	4.6		≤ 15	1.08		0.01

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	Linear	R2	0.998		≥ 0.99	0.533		0.01
o-Xylene	MS	AverageRF	% RSD	8.7		≤ 15	4.72		0.01
Styrene	MS	AverageRF	% RSD	13.9		≤ 15	3.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	12.1		≤ 15	1.13		0.01
‡ Toluene	MS	AverageRF	% RSD	8.6		≤ 15	5.02		0.01
Toluene-d8	SURR	AverageRF	% RSD	1.2		≤ 15	2.48		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	7.8		≤ 15	0.609		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	9.7		≤ 15	1.58		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.516		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	10.8		≤ 15	0.810		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.9		≤ 15	0.405		0.01
‡ Vinyl Chloride	MS	AverageRF	% RSD	10.0		≤ 15	0.434		0.01

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

File ID: J:\MS52\DATA\MS52-120227\0227-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	1.21	1.25	3	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.786	0.827	5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	1.01	1.01	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.675	0.713	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.745	0.819	10	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.629	0.681	8	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	1.69	1.66	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	1.92	1.85	-4	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.232	0.212	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.878	0.906	3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	2.42	2.47	2	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.536	0.540	1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.396	0.425	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	20	2.67	2.72	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	2.65	2.73	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.126	0.122	-3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.514	0.515	0	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.729	0.730	0	NA	± 30 %	AverageRF
Acetone	100	93	0.0878	0.0775	NA	-7	± 30 %	Linear
Benzene	20	21	1.74	1.85	6	NA	± 30 %	AverageRF
Bromochloromethane	20	22	0.265	0.292	10	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.592	0.612	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.693	0.665	-4	NA	± 30 %	AverageRF
Bromomethane	20	19	0.267	0.258	-3	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	1.03	1.12	8	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.667	0.697	NA	-3	± 30 %	Linear
Chlorobenzene	20	21	3.32	3.51	6	NA	± 30 %	AverageRF
Chloroethane	20	21	0.302	0.321	7	NA	± 30 %	AverageRF
Chloroform	20	20	0.828	0.846	2	NA	± 30 %	AverageRF
Chloromethane	20	21	0.551	0.569	3	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.573	0.605	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	1.71	1.79	5	NA	± 30 %	AverageRF
Cyclohexane	20	22	0.684	0.743	9	NA	± 30 %	AverageRF
Dibromochloromethane	20	20	1.09	1.10	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.554	0.589	6	NA	± 30 %	AverageRF
Ethylbenzene	20	21	5.75	6.10	6	NA	± 30 %	AverageRF
Isopropylbenzene	20	21	4.91	5.23	7	NA	± 30 %	AverageRF
m,p-Xylenes	40	43	4.53	4.90	8	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.510	0.512	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	1.08	1.10	2	NA	± 30 %	AverageRF
Methylene Chloride	20	26	0.533	0.618	NA	29	± 30 %	Linear

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	21	4.72	4.99	6	NA	± 30 %	AverageRF
Styrene	20	22	3.52	3.83	9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	21	1.13	1.21	7	NA	± 30 %	AverageRF
Toluene	20	21	5.02	5.34	6	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.609	0.653	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	1.58	1.57	0	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.516	0.579	12	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.810	0.857	6	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.405	0.435	7	NA	± 30 %	AverageRF
Vinyl Chloride	20	23	0.434	0.493	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS53\DATA\MS53-120307\0307-03.D	F	J:\MS53\DATA\MS53-120307\0307-09.D
B	J:\MS53\DATA\MS53-120307\0307-04.D	G	J:\MS53\DATA\MS53-120307\0307-10.D
C	J:\MS53\DATA\MS53-120307\0307-05.D	H	J:\MS53\DATA\MS53-120307\0307-11.D
D	J:\MS53\DATA\MS53-120307\0307-06.D	I	J:\MS53\DATA\MS53-120307\0307-15.D
E	J:\MS53\DATA\MS53-120307\0307-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	0.493	B	2.0	0.424	C	5.0	0.487	D	10	0.500	E	50	0.524
	F	100	0.512	G	150	0.473	H	200	0.463	I	20	0.523			
1,1,1-Trichloroethane (TCA)	A	1.0	0.186	B	2.0	0.173	C	5.0	0.216	D	10	0.207	E	50	0.253
	F	100	0.246	G	150	0.241	H	200	0.241	I	20	0.227			
1,1,2,2-Tetrachloroethane	A	1.0	0.721	B	2.0	0.736	C	5.0	0.779	D	10	0.812	E	50	0.777
	F	100	0.734	G	150	0.659	H	200	0.569	I	20	0.763			
1,1,2-Trichloroethane	A	1.0	0.374	B	2.0	0.341	C	5.0	0.369	D	10	0.374	E	50	0.363
	F	100	0.380	G	150	0.348	H	200	0.339	I	20	0.381			
1,1-Dichloroethane	A	1.0	0.341	B	2.0	0.323	C	5.0	0.390	D	10	0.382	E	50	0.427
	F	100	0.421	G	150	0.422	H	200	0.411	I	20	0.406			
1,1-Dichloroethene	A	1.0	0.218	B	2.0	0.195	C	5.0	0.247	D	10	0.227	E	50	0.266
	F	100	0.240	G	150	0.219	H	200	0.206	I	20	0.257			
1,2,3-Trichlorobenzene										D	10	0.342	E	50	0.343
	F	100	0.373	G	150	0.354	H	200	0.354	I	20	0.337			
1,2,4-Trichlorobenzene										D	10	0.485	E	50	0.533
	F	100	0.564	G	150	0.552	H	200	0.552	I	20	0.505			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.0716	D	10	0.0723	E	50	0.0750
	F	100	0.0823	G	150	0.0817	H	200	0.0823	I	20	0.0665			
1,2-Dibromoethane (EDB)	A	1.0	0.375	B	2.0	0.367	C	5.0	0.413	D	10	0.423	E	50	0.415
	F	100	0.425	G	150	0.406	H	200	0.382	I	20	0.421			
1,2-Dichlorobenzene	A	1.0	1.10	B	2.0	0.997	C	5.0	1.15	D	10	1.09	E	50	1.12
	F	100	1.12	G	150	1.03	H	200	1.01	I	20	1.16			
1,2-Dichloroethane (EDC)	A	1.0	0.136	B	2.0	0.117	C	5.0	0.138	D	10	0.137	E	50	0.147
	F	100	0.145	G	150	0.145	H	200	0.143	I	20	0.141			
1,2-Dichloroethane-d4	A	50	0.147	B	50	0.149	C	50	0.145	D	50	0.148	E	50	0.146
	F	50	0.144	G	50	0.146	H	50	0.141	I	50	0.141			
1,2-Dichloropropane	A	1.0	0.207	B	2.0	0.201	C	5.0	0.223	D	10	0.224	E	50	0.245
	F	100	0.240	G	150	0.233	H	200	0.230	I	20	0.234			
1,3-Dichlorobenzene	A	1.0	1.27	B	2.0	1.14	C	5.0	1.33	D	10	1.26	E	50	1.26
	F	100	1.16	G	150	1.06	H	200	0.987	I	20	1.31			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	1.21	B	2.0	1.11	C	5.0	1.28	D	10	1.25	E	50	1.31
	F	100	1.24	G	150	1.18	H	200	1.09	I	20	1.36			
2-Butanone (MEK)	A	5.0	0.00960	B	10	0.0116	C	25	0.0117	D	50	0.0121	E	250	0.0134
	F	500	0.0126	G	750	0.0128	H	1000	0.0131	I	100	0.0122			
2-Hexanone				B	10	0.293	C	25	0.288	D	50	0.283	E	250	0.263
	F	500	0.273	G	750	0.250	H	1000	0.238	I	100	0.278			
4-Bromofluorobenzene	A	50	1.02	B	50	0.970	C	50	0.993	D	50	0.952	E	50	0.907
	F	50	0.857	G	50	0.815	H	50	0.793	I	50	0.954			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.422	B	10	0.421	C	25	0.431	D	50	0.435	E	250	0.405
	F	500	0.401	G	750	0.380	H	1000	0.364	I	100	0.428			
Acetone	A	5.0	0.0341	B	10	0.0312	C	25	0.0313	D	50	0.0309	E	250	0.0284
	F	500	0.0286	G	750	0.0280	H	1000	0.0265	I	100	0.0274			
Benzene	A	1.0	0.820	B	2.0	0.794	C	5.0	0.904	D	10	0.885	E	50	0.990
	F	100	0.952	G	150	0.913	H	200	0.875	I	20	0.955			
Bromochloromethane	A	1.0	0.114	B	2.0	0.111	C	5.0	0.133	D	10	0.136	E	50	0.146
	F	100	0.145	G	150	0.148	H	200	0.145	I	20	0.142			
Bromodichloromethane	A	1.0	0.207	B	2.0	0.202	C	5.0	0.227	D	10	0.231	E	50	0.252
	F	100	0.246	G	150	0.244	H	200	0.233	I	20	0.241			
Bromoform	A	1.0	0.172	B	2.0	0.166	C	5.0	0.209	D	10	0.224	E	50	0.249
	F	100	0.246	G	150	0.236	H	200	0.224	I	20	0.232			
Bromomethane	A	1.0	0.172	B	2.0	0.160	C	5.0	0.182	D	10	0.184	E	50	0.217
	F	100	0.173	G	150	0.157	H	200	0.147	I	20	0.190			
Carbon Disulfide	A	5.0	0.669	B	10	0.622	C	25	0.755	D	50	0.708	E	250	0.796
	F	500	0.685	G	750	0.613	H	1000	0.560	I	100	0.787			
Carbon Tetrachloride	A	1.0	0.132	B	2.0	0.133	C	5.0	0.168	D	10	0.158	E	50	0.198
	F	100	0.195	G	150	0.190	H	200	0.193	I	20	0.178			
Chlorobenzene	A	1.0	1.44	B	2.0	1.39	C	5.0	1.57	D	10	1.54	E	50	1.56
	F	100	1.52	G	150	1.37	H	200	1.29	I	20	1.64			
Chloroethane	A	1.0	0.154	B	2.0	0.143	C	5.0	0.161	D	10	0.167	E	50	0.188
	F	100	0.162	G	150	0.150	H	200	0.143	I	20	0.178			
Chloroform	A	1.0	0.323	B	2.0	0.293	C	5.0	0.343	D	10	0.328	E	50	0.370
	F	100	0.368	G	150	0.370	H	200	0.357	I	20	0.350			
Chloromethane	A	1.0	0.306	B	2.0	0.286	C	5.0	0.324	D	10	0.314	E	50	0.389
	F	100	0.331	G	150	0.310	H	200	0.296	I	20	0.350			
cis-1,2-Dichloroethene	A	1.0	0.246	B	2.0	0.242	C	5.0	0.291	D	10	0.285	E	50	0.315
	F	100	0.310	G	150	0.308	H	200	0.301	I	20	0.307			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	0.867	B	2.0	0.838	C	5.0	0.964	D	10	0.976	E	50	0.970
	F	100	1.01	G	150	0.946	H	200	0.861	I	20	0.984			
Cyclohexane	A	1.0	0.302	B	2.0	0.267	C	5.0	0.366	D	10	0.311	E	50	0.419
	F	100	0.412	G	150	0.404	H	200	0.413	I	20	0.389			
Dibromochloromethane	A	1.0	0.442	B	2.0	0.394	C	5.0	0.445	D	10	0.461	E	50	0.462
	F	100	0.473	G	150	0.437	H	200	0.412	I	20	0.476			
Dibromofluoromethane	A	50	0.255	B	50	0.258	C	50	0.256	D	50	0.256	E	50	0.258
	F	50	0.260	G	50	0.261	H	50	0.255	I	50	0.256			
Dichlorodifluoromethane	A	1.0	0.110	B	2.0	0.138	C	5.0	0.165	D	10	0.155	E	50	0.201
	F	100	0.180	G	150	0.172	H	200	0.171	I	20	0.181			
Ethylbenzene	A	1.0	2.47	B	2.0	2.16	C	5.0	2.70	D	10	2.58	E	50	2.63
	F	100	2.56	G	150	2.23	H	200	2.03	I	20	2.78			
Isopropylbenzene	A	1.0	2.13	B	2.0	1.81	C	5.0	2.30	D	10	2.11	E	50	2.35
	F	100	2.21	G	150	2.04	H	200	1.94	I	20	2.39			
m,p-Xylenes	A	2.0	1.84	B	4.0	1.65	C	10	1.94	D	20	1.91	E	100	1.86
	F	200	1.67	G	300	1.42	H	400	1.26	I	40	2.04			
Methyl Acetate	A	1.0	0.314	B	2.0	0.285	C	5.0	0.285	D	10	0.294	E	50	0.296
	F	100	0.291	G	150	0.285	H	200	0.270	I	20	0.287			
Methyl tert-Butyl Ether	A	1.0	0.310	B	2.0	0.317	C	5.0	0.363	D	10	0.361	E	50	0.381
	F	100	0.376	G	150	0.374	H	200	0.377	I	20	0.359			
Methylene Chloride	A	1.0	0.228	B	2.0	0.210	C	5.0	0.255	D	10	0.243	E	50	0.278
	F	100	0.266	G	150	0.259	H	200	0.256	I	20	0.264			
o-Xylene	A	1.0	1.82	B	2.0	1.66	C	5.0	2.00	D	10	1.97	E	50	1.96
	F	100	1.85	G	150	1.63	H	200	1.43	I	20	2.02			
Styrene	A	1.0	1.51	B	2.0	1.37	C	5.0	1.63	D	10	1.63	E	50	1.61
	F	100	1.58	G	150	1.37	H	200	1.28	I	20	1.68			
Tetrachloroethene (PCE)	A	1.0	0.392	B	2.0	0.356	C	5.0	0.466	D	10	0.436	E	50	0.492
	F	100	0.500	G	150	0.461	H	200	0.441	I	20	0.511			
Toluene	A	1.0	2.37	B	2.0	2.18	C	5.0	2.58	D	10	2.43	E	50	2.54
	F	100	2.47	G	150	2.16	H	200	1.99	I	20	2.73			
Toluene-d8	A	50	2.41	B	50	2.43	C	50	2.45	D	50	2.48	E	50	2.35
	F	50	2.44	G	50	2.41	H	50	2.34	I	50	2.48			
trans-1,2-Dichloroethene	A	1.0	0.258	B	2.0	0.248	C	5.0	0.305	D	10	0.285	E	50	0.345
	F	100	0.338	G	150	0.333	H	200	0.326	I	20	0.324			
trans-1,3-Dichloropropene	A	1.0	0.620	B	2.0	0.584	C	5.0	0.677	D	10	0.694	E	50	0.674
	F	100	0.714	G	150	0.664	H	200	0.623	I	20	0.697			

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† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.181	B	2.0	0.172	C	5.0	0.213	D	10	0.204	E	50	0.233
	F	100	0.228	G	150	0.221	H	200	0.209	I	20	0.224			
Trichlorofluoromethane				B	2.0	0.137	C	5.0	0.190	D	10	0.176	E	50	0.225
	F	100	0.216	G	150	0.209	H	200	0.206	I	20	0.205			
Trichlorotrifluoroethane	A	1.0	0.154	B	2.0	0.138	C	5.0	0.181	D	10	0.175	E	50	0.223
	F	100	0.197	G	150	0.186	H	200	0.187	I	20	0.202			
Vinyl Chloride	A	1.0	0.208	B	2.0	0.198	C	5.0	0.254	D	10	0.242	E	50	0.277
										I	20	0.272			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.6		≤ 15	0.221		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	10.1		≤ 15	0.728		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	4.6		≤ 15	0.363		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.5		≤ 15	0.391		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	10.3		≤ 15	0.230		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	3.7		≤ 15	0.351		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.532		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	8.3		≤ 15	0.0760		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	5.6		≤ 15	0.403		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.5		≤ 15	1.09		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	6.6		≤ 15	0.139		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	1.8		≤ 15	0.145		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	6.4		≤ 15	0.227		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	9.8		≤ 15	1.20		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	7.2		≤ 15	1.22		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	9.2		≤ 15	0.0121		0.01
2-Hexanone	MS	AverageRF	% RSD	7.0		≤ 15	0.271		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	8.7		≤ 15	0.917		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.0		≤ 15	0.410		0.01
Acetone	MS	AverageRF	% RSD	8.2		≤ 15	0.0296		0.01
Benzene	MS	AverageRF	% RSD	7.1		≤ 15	0.899		0.01
Bromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	0.135		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.5		≤ 15	0.231		0.01
† Bromoform	MS	AverageRF	% RSD	13.8		≤ 15	0.218		0.1
Bromomethane	MS	AverageRF	% RSD	11.8		≤ 15	0.176		0.01
Carbon Disulfide	MS	AverageRF	% RSD	11.8		≤ 15	0.689		0.01
Carbon Tetrachloride	MS	Linear	R2	1.000		≥ 0.99	0.172		0.01
† Chlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	1.48		0.3
Chloroethane	MS	AverageRF	% RSD	9.6		≤ 15	0.161		0.01
‡ Chloroform	MS	AverageRF	% RSD	7.5		≤ 15	0.345		0.01
† Chloromethane	MS	AverageRF	% RSD	9.7		≤ 15	0.323		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	9.5		≤ 15	0.290		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	6.7		≤ 15	0.935		0.01
Cyclohexane	MS	Linear	R2	1.000		≥ 0.99	0.365		0.01
Dibromochloromethane	MS	AverageRF	% RSD	6.2		≤ 15	0.445		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	0.8		≤ 15	0.257		
Dichlorodifluoromethane	MS	Linear	R2	0.998		≥ 0.99	0.164		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	10.6		≤ 15	2.46		0.01
Isopropylbenzene	MS	AverageRF	% RSD	9.0		≤ 15	2.14		0.01
m,p-Xylenes	MS	AverageRF	% RSD	14.9		≤ 15	1.73		0.01
Methyl Acetate	MS	AverageRF	% RSD	4.1		≤ 15	0.290		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	7.3		≤ 15	0.358		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	AverageRF	% RSD	8.3		≤ 15	0.251		0.01
o-Xylene	MS	AverageRF	% RSD	11.2		≤ 15	1.81		0.01
Styrene	MS	AverageRF	% RSD	9.4		≤ 15	1.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	11.3		≤ 15	0.451		0.01
‡ Toluene	MS	AverageRF	% RSD	9.9		≤ 15	2.38		0.01
Toluene-d8	SURR	AverageRF	% RSD	2.1		≤ 15	2.42		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	11.5		≤ 15	0.307		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	6.5		≤ 15	0.661		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	10.0		≤ 15	0.209		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	14.3		≤ 15	0.196		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.8		≤ 15	0.183		0.01
‡ Vinyl Chloride	MS	Linear	R2	1.000		≥ 0.99	0.242		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

File ID: J:\MS53\DATA\MS53-120307\0307-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	0.489	0.523	7	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.221	0.234	6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	22	0.728	0.785	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.363	0.386	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.391	0.419	7	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.230	0.261	13	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	0.351	0.349	0	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	20	0.532	0.523	-2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	19	0.0760	0.0717	-6	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.403	0.427	6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	22	1.09	1.19	10	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	21	0.139	0.142	3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.227	0.240	6	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	22	1.20	1.35	12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	22	1.22	1.33	9	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	110	0.0121	0.0131	8	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.271	0.280	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	110	0.410	0.432	5	NA	± 30 %	AverageRF
Acetone	100	93	0.0296	0.0276	-7	NA	± 30 %	AverageRF
Benzene	20	22	0.899	0.979	9	NA	± 30 %	AverageRF
Bromochloromethane	20	21	0.135	0.143	6	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.231	0.244	5	NA	± 30 %	AverageRF
Bromoform	20	22	0.218	0.239	10	NA	± 30 %	AverageRF
Bromomethane	20	22	0.176	0.192	9	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.689	0.795	15	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.172	0.181	NA	-3	± 30 %	Linear
Chlorobenzene	20	22	1.48	1.62	10	NA	± 30 %	AverageRF
Chloroethane	20	22	0.161	0.175	9	NA	± 30 %	AverageRF
Chloroform	20	21	0.345	0.364	6	NA	± 30 %	AverageRF
Chloromethane	20	22	0.323	0.351	9	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.290	0.306	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	0.935	0.996	6	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.365	0.398	NA	0	± 30 %	Linear
Dibromochloromethane	20	21	0.445	0.478	7	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.164	0.164	NA	-11	± 30 %	Linear
Ethylbenzene	20	23	2.46	2.81	14	NA	± 30 %	AverageRF
Isopropylbenzene	20	23	2.14	2.41	13	NA	± 30 %	AverageRF
m,p-Xylenes	40	47	1.73	2.03	17	NA	± 30 %	AverageRF
Methyl Acetate	20	21	0.290	0.301	4	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.358	0.363	2	NA	± 30 %	AverageRF
Methylene Chloride	20	22	0.251	0.271	8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	23	1.81	2.07	14	NA	± 30 %	AverageRF
Styrene	20	22	1.52	1.70	12	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	23	0.451	0.515	14	NA	± 30 %	AverageRF
Toluene	20	23	2.38	2.71	14	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.307	0.328	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	21	0.661	0.696	5	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.209	0.229	10	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.196	0.206	5	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	22	0.183	0.199	9	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.242	0.264	NA	-2	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

File ID: J:\MS52\DATA\MS52-120322\0322-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	1.21	1.10	-9	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	18	0.01	0.786	0.715	-9	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	1.01	0.998	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.675	0.656	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	19	0.1	0.745	0.708	-5	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	17	0.01	0.629	0.526	-16	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	1.69	1.63	-4	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	0.01	1.92	1.86	-3	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.01	0.232	0.213	-8	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.878	0.824	-6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	18	0.01	2.42	2.22	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	18	0.01	0.536	0.491	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	50		0.251	0.251	0	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	19	0.01	0.396	0.378	-4	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	19	0.01	2.67	2.49	-7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	18	0.01	2.65	2.44	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.126	0.129	3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.01	0.514	0.521	1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	47		0.918	0.861	-6	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.01	0.729	0.733	1	NA	± 30 %	AverageRF
Acetone	100	98	0.01	0.0878	0.0782	NA	-2	± 30 %	Linear
Benzene	20	19	0.01	1.74	1.63	-6	NA	± 30 %	AverageRF
Bromochloromethane	20	20	0.01	0.265	0.260	-2	NA	± 30 %	AverageRF
Bromodichloromethane	20	18	0.01	0.592	0.536	-9	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.693	0.631	-9	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.267	0.247	-7	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	1.03	1.20	16	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.667	0.591	NA	-17	± 30 %	Linear
Chlorobenzene	20	19	0.3	3.32	3.19	-4	NA	± 30 %	AverageRF
Chloroethane	20	19	0.01	0.302	0.288	-4	NA	± 30 %	AverageRF
Chloroform	20	18	0.01	0.828	0.729	-12	NA	± 20 %	AverageRF
Chloromethane	20	17	0.1	0.551	0.480	-13	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	19	0.01	0.573	0.541	-6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	19	0.01	1.71	1.63	-5	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.684	0.674	-2	NA	± 30 %	AverageRF
Dibromochloromethane	20	18	0.01	1.09	0.995	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.241	0.238	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.01	0.554	0.489	-12	NA	± 30 %	AverageRF
Ethylbenzene	20	19	0.01	5.75	5.57	-3	NA	± 20 %	AverageRF
Isopropylbenzene	20	21	0.01	4.91	5.09	4	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	39	0.01	4.53	4.39	-3	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.510	0.509	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	1.08	1.05	-2	NA	± 30 %	AverageRF
Methylene Chloride	20	17	0.01	0.533	0.395	NA	-17	± 30 %	Linear
o-Xylene	20	19	0.01	4.72	4.49	-5	NA	± 30 %	AverageRF
Styrene	20	20	0.01	3.52	3.47	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.01	1.13	1.12	-1	NA	± 30 %	AverageRF
Toluene	20	19	0.01	5.02	4.81	-4	NA	± 20 %	AverageRF
Toluene-d8	50	51		2.48	2.51	1	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	18	0.01	0.609	0.556	-9	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	1.58	1.46	-8	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	19	0.01	0.516	0.490	-5	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	18	0.01	0.810	0.722	-11	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	17	0.01	0.405	0.353	-13	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.434	0.432	-1	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

File ID: J:\MS53\DATA\MS53-120330\0330-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.459	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.208	-6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.719	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.398	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.256	11	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	18	0.01	0.351	0.323	-8	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.468	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	15	0.01	0.0760	0.0577	-24	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.373	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	0.01	1.09	1.08	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.136	-2	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	49		0.145	0.144	-1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.238	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.22	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	0.01	1.22	1.26	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0127	5	NA	± 30 %	AverageRF
2-Hexanone	100	94	0.01	0.271	0.254	-6	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	54		0.917	0.993	8	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.384	-6	NA	± 30 %	AverageRF
Acetone	100	93	0.01	0.0296	0.0274	-7	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.927	3	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.132	-3	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.228	-2	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.218	0.201	-8	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.162	-8	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.172	0.159	NA	-15	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.160	0	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.338	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.378	17	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.296	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.934	0	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.387	NA	-2	± 30 %	Linear
Dibromochloromethane	20	19	0.01	0.445	0.411	-8	NA	± 30 %	AverageRF
Dibromofluoromethane	50	49		0.257	0.254	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.194	NA	6	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.49	1	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.50	17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.290	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.357	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.252	0	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.80	-1	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.50	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.428	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.33	-2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.299	-2	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	19	0.01	0.661	0.637	-4	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.207	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.183	0	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.278	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

File ID: J:\MS53\DATA\MS53-120402\0402-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.460	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.212	-4	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.729	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.352	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.399	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.01	0.230	0.263	14	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.470	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0614	-19	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	18	0.01	0.403	0.371	-8	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.02	-6	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	19	0.01	0.139	0.132	-5	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	47		0.145	0.137	-6	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.237	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.21	-1	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.01	0.0121	0.0118	-3	NA	± 30 %	AverageRF
2-Hexanone	100	92	0.01	0.271	0.249	-8	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	53		0.917	0.967	5	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.386	-6	NA	± 30 %	AverageRF
Acetone	100	88	0.01	0.0296	0.0261	-12	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.965	7	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.129	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.234	1	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.211	-3	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.176	0.165	-6	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	0.689	0.804	17	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.170	NA	-9	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.46	-1	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.163	1	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.336	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.375	16	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.01	0.290	0.305	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.946	1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.407	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.257	0.259	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.191	NA	5	± 30 %	Linear
Ethylbenzene	20	19	0.01	2.46	2.36	-4	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.43	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.283	-2	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.360	1	NA	± 30 %	AverageRF
Methylene Chloride	20	21	0.01	0.251	0.261	4	NA	± 30 %	AverageRF
o-Xylene	20	21	0.01	1.81	1.87	3	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.52	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.429	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.42	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.309	1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.653	-1	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.208	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.194	-1	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.186	2	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.242	0.276	NA	2	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

File ID: J:\MS53\DATA\MS53-120403\0403-03.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	0.489	0.451	-8	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.210	-5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.734	1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.1	0.391	0.401	3	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.251	9	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.481	-10	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0607	-20	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.375	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.05	-3	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.137	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	48		0.145	0.140	-3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.233	3	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.20	1.23	3	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.20	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0124	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.271	0.252	-7	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	51		0.917	0.942	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.385	-6	NA	± 30 %	AverageRF
Acetone	100	92	0.01	0.0296	0.0273	-8	NA	± 30 %	AverageRF
Benzene	20	20	0.01	0.899	0.915	2	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.128	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.01	0.231	0.238	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.202	-7	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.157	-11	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.166	NA	-11	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	21	0.01	0.161	0.165	3	NA	± 30 %	AverageRF
Chloroform	20	19	0.01	0.345	0.329	-5	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.369	14	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.289	0	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.922	-1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.406	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48		0.257	0.248	-4	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.189	NA	4	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.51	2	NA	± 20 %	AverageRF
Isopropylbenzene	20	22	0.01	2.14	2.38	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.78	3	NA	± 30 %	AverageRF
Methyl Acetate	20	19	0.01	0.290	0.272	-6	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.358	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.246	-2	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.82	0	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.51	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.420	-7	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.44	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.31	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.304	-1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.651	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.206	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.01	0.183	0.192	5	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.280	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Sample Prep and Screen Data

p:\Stealth\Crystal.rpt\DividerF.rpt

Preparation Information

Group ID:	JWG1200305	**Prep Method:**	EPA 5035	**Prep Date:**	03/22/12 09:17
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
J1201360-025	CRHE-188849-IDW-0321201	8260B	SOIL	5.9300g	5mL	84
J1201360-026	CRHE-188797-IDW-0321201	8260B	SOIL	5.1200g	5mL	88
J1201360-027	CRHE-188842-IDW-0321201	8260B	SOIL	5.9600g	5mL	83
J1201360-028	CRHE-188838-IDW-0321201	8260B	SOIL	5.3500g	5mL	81
JWG1200305-1	Lab Control Sample	8260B	SOIL	5.00g	5ml	100
JWG1200305-2	Method Blank	8260B	SOIL	5.00g	5ml	100

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-025	264703	42346	1uL			
J1201360-026	264704	42346	1uL			
J1201360-027	264705	42346	1uL			
J1201360-028	264706	42346	1uL			
JWG1200305-1	264707	42346	1uL	42183/40123	20uL	
JWG1200305-2	264708	42346	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes No

Received By: _____ Date: _____

Preparation Information

Group ID:	JWG1200321	**Prep Method:**	EPA 5030B	**Prep Date:**	03/30/12 10:42
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-001	CRHE-MW0032-045.0-0319:	8260B	WATER	10ml	10ml
J1201360-002	CRHE-MW0030-010.0-0319:	8260B	WATER	10ml	10ml
J1201360-003	CRHE-MW0023-065.0-0319:	8260B	WATER	10ml	10ml
J1201360-004	CRHE-MW0031-045.0-0319:	8260B	WATER	10ml	10ml
J1201360-005	CRHE-IW0020I-045.0-03192	8260B	WATER	10ml	10ml
J1201360-006	CRHE-MW0039-030.0-0319:	8260B	WATER	10ml	10ml
J1201360-007	CRHE-MW0038-010.0-0319:	8260B	WATER	10ml	10ml
J1201360-008	EB01-03192012	8260B	WATER	10ml	10ml
J1201360-009	CRHE-IW0015I-040.0-03192	8260B	WATER	10ml	10ml
J1201360-010	CRHE-MW0034-038.5-0320:	8260B	WATER	10ml	10ml
J1201360-011	CRHE-IW0019I-040.0-03202	8260B	WATER	10ml	10ml
J1201360-012	CRHE-MW0033-048.5-0320:	8260B	WATER	10ml	10ml
J1201360-013	CRHE-IW0021I-045.0-03202	8260B	WATER	10ml	10ml
J1201360-014	CRHE-MW0035-045.0-0320:	8260B	WATER	10ml	10ml
J1201360-015	CRHE-MW0028-040.0-0320:	8260B	WATER	10ml	10ml
J1201360-016	CRHE-MW0037-030.0-0320:	8260B	WATER	10ml	10ml
J1201360-017	CRHE-IW0017I-030.0-03202	8260B	WATER	10ml	10ml
JWG1200321-1	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200321-2	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-001	264821	40951	1uL			
J1201360-002	264822	40951	1uL			
J1201360-003	264823	40951	1uL			
J1201360-004	264824	40951	1uL			
J1201360-005	264825	40951	1uL			
J1201360-006	264826	40951	1uL			
J1201360-007	264827	40951	1uL			
J1201360-008	264828	40951	1uL			
J1201360-009	264829	40951	1uL			
J1201360-010	264830	40951	1uL			
J1201360-011	264831	40951	1uL			
J1201360-012	264832	40951	1uL			
J1201360-013	264833	40951	1uL			
J1201360-014	264834	40951	1uL			
J1201360-015	264835	40951	1uL			

Comments

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

Group ID:	JWG1200321	**Prep Method:**	EPA 5030B	**Prep Date:**	03/30/12 10:42
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-016	264836	40951	1uL			
J1201360-017	264837	40951	1uL			
JWG1200321-1	264838	40951	1uL	42546/40123	20uL	
JWG1200321-2	264839	40951	1uL			

Comments

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date:

Received By: Date: Extracts Examined Yes No

Preparation Information

Group ID:	JWG1200325	**Prep Method:**	EPA 5030B	**Prep Date:**	04/02/12 08:51
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-001	CRHE-MW0032-045.0-0319	8260B	WATER	10ml	10ml
J1201360-004	CRHE-MW0031-045.0-0319	8260B	WATER	10ml	10ml
J1201360-005	CRHE-IW0020I-045.0-03192	8260B	WATER	10ml	10ml
J1201360-006	CRHE-MW0039-030.0-0319	8260B	WATER	10ml	10ml
J1201360-010	CRHE-MW0034-038.5-0320	8260B	WATER	10ml	10ml
J1201360-011	CRHE-IW0019I-040.0-03202	8260B	WATER	10ml	10ml
J1201360-014	CRHE-MW0035-045.0-0320	8260B	WATER	10ml	10ml
J1201360-015	CRHE-MW0028-040.0-0320	8260B	WATER	10ml	10ml
J1201360-017	CRHE-IW0017I-030.0-03202	8260B	WATER	10ml	10ml
J1201360-018	CRHE-IW0014I-040.0-03212	8260B	WATER	10ml	10ml
J1201360-019	CRHE-MW0029-045.0-0321	8260B	WATER	10ml	10ml
J1201360-020	CRHE-MW0026-035.0-0321	8260B	WATER	10ml	10ml
J1201360-021	CRHE-MW0022-065.0-0321	8260B	WATER	10ml	10ml
J1201360-022	CRHE-MW0027-045.0-0321	8260B	WATER	10ml	10ml
J1201360-023	CRHE-MW0024-010.0-0321	8260B	WATER	10ml	10ml
J1201360-029	Trip Blank	8260B	WATER	10ml	10ml
JWG1200325-1	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200325-2	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-001	264845	40951	1uL			
J1201360-004	264846	40951	1uL			
J1201360-005	264847	40951	1uL			
J1201360-006	264848	40951	1uL			
J1201360-010	264849	40951	1uL			
J1201360-011	264850	40951	1uL			
J1201360-014	264851	40951	1uL			
J1201360-015	264852	40951	1uL			
J1201360-017	264853	40951	1uL			
J1201360-018	264854	40951	1uL			
J1201360-019	264855	40951	1uL			
J1201360-020	264856	40951	1uL			
J1201360-021	264857	40951	1uL			
J1201360-022	264858	40951	1uL			
J1201360-023	264843	40951	1uL			
J1201360-029	264844	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

Group ID:	JWG1200325	**Prep Method:**	EPA 5030B	**Prep Date:**	04/02/12 08:51
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
JWG1200325-1	264859	40951	1uL	42546/42796	20uL	
JWG1200325-2	264860	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

Preparation Information

Group ID:	JWG1200333	**Prep Method:**	EPA 5030B	**Prep Date:**	04/03/12 10:53
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-018	CRHE-IW0014I-040.0-03212	8260B	WATER	10ml	10ml
J1201360-019	CRHE-MW0029-045.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-020	CRHE-MW0026-035.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-021	CRHE-MW0022-065.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-022	CRHE-MW0027-045.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-024	CRHE-MW0025-030.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-024	CRHE-MW0025-030.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-030	CHRE-MW0036-010.0-0320[illegible]	8260B	WATER	10ml	10ml
J1201388-017	GAIN-FW-22B-02-032112	8260B	WATER	10ml	10ml
J1201388-018	GAIN-FW-22B-01-032112	8260B	WATER	10ml	10ml
J1201388-019	GAIN-FB-03-032112	8260B	WATER	10ml	10ml
J1201388-020	GAIN-EB-03-032112	8260B	WATER	10ml	10ml
J1201388-021	GAIN-Trip Blank-032112	8260B	WATER	10ml	10ml
J1201388-023	GAIN-FW-29B-032112	8260B	WATER	10ml	10ml
J1201388-024	GAIN-FW-99-032112	8260B	WATER	10ml	10ml
J1201388-025	GAIN-FW-29C-032112	8260B	WATER	10ml	10ml
JWG1200333-1	Matrix Spike	8260B	WATER	10ml	10ml
JWG1200333-2	Duplicate Matrix Spike	8260B	WATER	10ml	10ml
JWG1200333-3	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200333-4	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Parent Lab Code	Comments
JWG1200333-1	J1201388-023	
JWG1200333-2	J1201388-023	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-018	264883	40951	1uL			
J1201360-019	264884	40951	1uL			
J1201360-020	264885	40951	1uL			
J1201360-021	264886	40951	1uL			
J1201360-022	264887	40951	1uL			
J1201360-024	264881	40951	1uL			
J1201360-024	264888	40951	1uL			
J1201360-030	264882	40951	1uL			
J1201388-017	264889	40951	1uL			
J1201388-018	264890	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes No

Received By: _____ Date: _____

Group ID:	JWG1200333	**Prep Method:**	EPA 5030B	**Prep Date:**	04/03/12 10:53
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201388-019	264891	40951	1uL			
J1201388-020	264892	40951	1uL			
J1201388-021	264893	40951	1uL			
J1201388-023	264894	40951	1uL			
J1201388-024	264895	40951	1uL			
J1201388-025	264896	40951	1uL			
JWG1200333-1	264897	40951	1uL	42873/42796	20uL	
JWG1200333-2	264898	40951	1uL	42873/42796	20uL	
JWG1200333-3	264899	40951	1uL	42873/42796	20uL	
JWG1200333-4	264900	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

KB LABS, INC.
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Newberry, Florida 32669

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***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

August 10, 2009

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, Florida 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 09-107

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from June 21 to August 6 2009. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form. This information will also be sent electronically.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From June 21 to August 6, 2009, a total of 195 water samples were analyzed for GeoSyntec Consultants at NASA CHRE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHEA-DPT0019-038.0 reported 1,1,dichloroethene 1.0 changed to <1.0ug/L.

3. Changes for sample ID CRHEA-DPT0020-018.0 reported analytes <1.0 changed to <10ug/L.

4. Changes for sample ID CRHE-DPT0033-043.0 reported:
   1,1-dichloroethene 3.6 changed to 18ug/L.
   t-1,2-dichloroethene 14 changed to 72ug/L.
   trichloroethene <1.3 changed to <5.0ug/L.

5. Changes for sample ID CRHE-DPT0034-043.0 all analytes reported <1.0 changed to <2.0ug/L.

6. Changes for sample ID CRHE-DPT0036-038.0 reported:

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1,1-dichloroethene <45 changed to <100ug/L.
trichloroethene <26 changed to <100ug/L.
tetrachloroethene <18 changed to <100ug/L.

7. Changes for sample ID CRHE-DPT0036-043.0 reported trichloroethene and tetrachloroethene <1.0 changed to <2.0ug/L.

8. Values between KB Labs Reporting Limit (RL) and Method Detection Limit (MDL) are indicated with a “I” Data Qualifier.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 1	06/21/09	110	104	98	102	Pass	Pass	Pass	Pass
VSTD 5	06/21/09	107	108	93	99	Pass	Pass	Pass	Pass
VSTD 10	06/21/09	110	105	103	105	Pass	Pass	Pass	Pass
RSTD 20	06/21/09	104	97	102	98	Pass	Pass	Pass	Pass
VSTD 30	06/21/09	99	100	106	98	Pass	Pass	Pass	Pass
VSTD 50	06/21/09	56	69	107	82	< LCL	Pass	Pass	Pass
VSTD 100	06/21/09	94	112	101	98	Pass	Pass	Pass	Pass
BLANK	06/21/09	105	102	98	98	Pass	Pass	Pass	Pass
RSTD 50	06/22/09	82	79	103	97	Pass	Pass	Pass	Pass
LCS 50	06/22/09	81	94	107	103	Pass	Pass	Pass	Pass
BLANK	06/22/09	78	95	99	98	Pass	Pass	Pass	Pass
CRHEA-DPT0017-010.0	06/22/09	74	96	97	100	Pass	Pass	Pass	Pass
CRHEA-DPT0017-018.0	06/22/09	73	93	94	96	Pass	Pass	Pass	Pass
CRHEA-DPT0017-028.0	06/22/09	74	94	98	94	Pass	Pass	Pass	Pass
CRHEA-DPT0017-038.0	06/22/09	73	108	94	102	Pass	Pass	Pass	Pass
CRHEA-DPT0017-043.0 1:5	06/22/09	70	108	99	106	Pass	Pass	Pass	Pass
CRHEA-DPT0017-063.0	06/22/09	71	115	95	98	Pass	Pass	Pass	Pass
CRHEA-DPT0017-048.0	06/22/09	65	107	93	96	Pass	Pass	Pass	Pass
CRHEA-DPT0018-010.0	06/22/09	58	96	92	91	< LCL	Pass	Pass	Pass
CRHEA-DPT0018-018.0	06/22/09	64	108	95	95	Pass	Pass	Pass	Pass
CRHEA-DPT0018-028.0	06/22/09	62	88	88	96	Pass	Pass	Pass	Pass
CRHEA-DPT0018-038.0 1:5	06/22/09	69	84	93	98	Pass	Pass	Pass	Pass
CRHEA-DPT0018-043.0 1:5	06/22/09	67	77	97	96	Pass	Pass	Pass	Pass
CRHEA-DPT0018-048.0	06/22/09	65	73	98	95	Pass	Pass	Pass	Pass
CRHEA-DPT0018-063.0	06/22/09	71	76	95	99	Pass	Pass	Pass	Pass
CRHEA-DPT0017-038.0 1:5	06/22/09	67	80	92	102	Pass	Pass	Pass	Pass
CRHEA-DPT0018-048.0 1:5	06/22/09	71	85	95	100	Pass	Pass	Pass	Pass
CRHEA-DPT0019-010.0	06/22/09	73	84	93	97	Pass	Pass	Pass	Pass
CRHEA-DPT0019-018.0	06/22/09	66	78	92	100	Pass	Pass	Pass	Pass
CRHEA-DPT0019-028.0	06/22/09	71	81	92	94	Pass	Pass	Pass	Pass
CRHEA-DPT0019-038.0	06/22/09	63	72	90	95	Pass	Pass	Pass	Pass
CRHEA-DPT0019-043.0 1:5	06/22/09	71	81	96	98	Pass	Pass	Pass	Pass
CRHEA-DPT0019-048.0 1:5	06/22/09	64	72	96	101	Pass	Pass	Pass	Pass
CRHEA-DPT0019-063.0	06/22/09	66	79	95	97	Pass	Pass	Pass	Pass
CRHEA-DPT0019-010.0 MS	06/22/09	69	97	97	98	Pass	Pass	Pass	Pass
CRHEA-DPT0019-010.0 MSD	06/22/09	64	96	96	100	Pass	Pass	Pass	Pass
CCS 20	06/22/09	66	99	101	98	Pass	Pass	Pass	Pass
CCS 20	06/23/09	87	94	98	105	Pass	Pass	Pass	Pass
LCS 20	06/23/09	80	85	99	100	Pass	Pass	Pass	Pass
BLANK	06/23/09	65	97	106	100	Pass	Pass	Pass	Pass
CRHEA-DPT0020-010.0	06/23/09	61	99	91	97	Pass	Pass	Pass	Pass
CRHEA-DPT0020-018.0 1:10	06/23/09	62	99	106	104	Pass	Pass	Pass	Pass
CRHEA-DPT0020-028.0	06/23/09	63	84	101	102	Pass	Pass	Pass	Pass
CRHEA-DPT0020-038.0 1:5	06/23/09	63	99	103	106	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHEA-DPT0020-043.0 1:5	06/23/09	60	77	99	101	< LCL	Pass	Pass	Pass
CRHEA-DPT0020-048.0	06/23/09	68	102	97	98	Pass	Pass	Pass	Pass
CRHEA-DPT0020-038.0 1:10	06/23/09	67	104	101	98	Pass	Pass	Pass	Pass
CRHEA-DPT0020-063.0	06/23/09	64	99	94	98	Pass	Pass	Pass	Pass
CRHEA-DPT0020-010.0 MS	06/23/09	73	105	97	94	Pass	Pass	Pass	Pass
CRHEA-DPT0020-010.0 MSD	06/23/09	73	99	98	101	Pass	Pass	Pass	Pass
BLANK	06/23/09	62	106	95	96	Pass	Pass	Pass	Pass
CRHEA-DPT0021-010.0	06/23/09	63	102	90	101	Pass	Pass	Pass	Pass
CRHEA-DPT0020-018.0	06/23/09	62	96	94	99	Pass	Pass	Pass	Pass
CRHEA-DPT0021-028.0	06/23/09	64	88	93	94	Pass	Pass	Pass	Pass
CRHEA-DPT0021-038.0	06/23/09	66	78	95	94	Pass	Pass	Pass	Pass
CRHEA-DPT0021-043.0	06/23/09	64	88	95	95	Pass	Pass	Pass	Pass
CRHEA-DPT0021-048.0	06/23/09	62	83	100	100	Pass	Pass	Pass	Pass
CRHEA-DPT0021-063.0	06/23/09	63	92	90	107	Pass	Pass	Pass	Pass
CRHEA-DPT0022-010.0	06/23/09	62	77	93	94	Pass	Pass	Pass	Pass
CRHEA-DPT0022-018.0	06/23/09	65	105	93	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-028.0	06/23/09	64	88	95	97	Pass	Pass	Pass	Pass
CRHEA-DPT0020-043.0 1:10	06/23/09	65	98	96	101	Pass	Pass	Pass	Pass
CRHEA-DPT0020-063.0 1:2	06/23/09	65	107	90	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-038.0	06/23/09	60	104	97	98	< LCL	Pass	Pass	Pass
CCS 20	06/23/09	71	94	100	96	Pass	Pass	Pass	Pass
CCS 20	06/24/09	84	91	108	100	Pass	Pass	Pass	Pass
LCS 20	06/24/09	88	95	96	100	Pass	Pass	Pass	Pass
BLANK	06/24/09	95	89	97	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-043.0 1:5	06/24/09	97	93	93	97	Pass	Pass	Pass	Pass
CRHEA-DPT0022-048.0	06/24/09	101	93	86	98	Pass	Pass	Pass	Pass
CRHEA-DPT0022-063.0	06/24/09	96	92	94	94	Pass	Pass	Pass	Pass
CRHEA-DPT0023-010.0	06/24/09	72	96	96	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-018.0	06/24/09	74	94	89	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-028.0	06/24/09	73	97	88	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-038.0 1:5	06/24/09	0	66	0	82	< LCL	Pass	< LCL	Pass
CRHEA-DPT0023-038.0 RPT	06/24/09	63	96	88	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-043.0	06/24/09	64	103	97	96	Pass	Pass	Pass	Pass
CRHEA-DPT0023-048.0	06/24/09	62	98	87	95	Pass	Pass	Pass	Pass
CRHEA-DPT0023-063.0	06/24/09	64	99	96	100	Pass	Pass	Pass	Pass
CRHEA-DPT0024-010.0	06/24/09	60	91	96	99	< LCL	Pass	Pass	Pass
CRHEA-DPT0024-018.0	06/24/09	63	101	97	95	Pass	Pass	Pass	Pass
CRHEA-DPT0024-028.0	06/24/09	66	101	93	99	Pass	Pass	Pass	Pass
CRHEA-DPT0024-038.0 1:10	06/24/09	64	101	92	100	Pass	Pass	Pass	Pass
CRHEA-DPT0022-038.0 1:5	06/24/09	67	110	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0024-043.0 1:5	06/24/09	65	80	99	103	Pass	Pass	Pass	Pass
CRHEA-DPT0024-048.0	06/24/09	66	87	96	95	Pass	Pass	Pass	Pass
CRHEA-DPT0024-063.0	06/24/09	63	97	91	100	Pass	Pass	Pass	Pass
CRHEA-DPT0020-073.0	06/24/09	58	89	98	104	< LCL	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHEA-DPT0022-073.0	06/24/09	61	70	98	99	Pass	Pass	Pass	Pass
CRHEA-DPT0023-010.0 MS	06/24/09	0	0	0	87	< LCL	< LCL	< LCL	Pass
CRHEA-DPT0023-010.0 MSD	06/24/09	71	102	100	99	Pass	Pass	Pass	Pass
CRHEA-DPT0023-010.0 MS	06/24/09	70	94	104	106	Pass	Pass	Pass	Pass
CCS 20	06/24/09	70	98	92	99	Pass	Pass	Pass	Pass
CCS 20	06/25/09	85	87	106	107	Pass	Pass	Pass	Pass
LCS 20	06/25/09	94	93	104	100	Pass	Pass	Pass	Pass
BLANK	06/25/09	96	88	92	94	Pass	Pass	Pass	Pass
CRHEA-DPT0025-010.0	06/25/09	98	90	91	100	Pass	Pass	Pass	Pass
CRHEA-DPT0025-018.0	06/25/09	94	90	91	102	Pass	Pass	Pass	Pass
CRHEA-DPT0025-028.0	06/25/09	94	93	102	97	Pass	Pass	Pass	Pass
CRHEA-DPT0025-038.0	06/25/09	97	93	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0025-043.0	06/25/09	95	92	94	105	Pass	Pass	Pass	Pass
CRHEA-DPT0025-048.0	06/25/09	102	97	90	96	Pass	Pass	Pass	Pass
CRHEA-DPT0025-063.0	06/25/09	99	97	102	95	Pass	Pass	Pass	Pass
CRHEA-DPT0026-010.0	06/25/09	80	98	99	10	Pass	Pass	Pass	< LCL
CRHEA-DPT0025-010.0 MS	06/25/09	83	99	92	103	Pass	Pass	Pass	Pass
CRHEA-DPT0025-010.0 MSD	06/25/09	78	104	97	100	Pass	Pass	Pass	Pass
BLANK	06/25/09	67	101	96	97	Pass	Pass	Pass	Pass
CRHEA-DPT0026-018.0	06/25/09	64	97	97	105	Pass	Pass	Pass	Pass
CRHEA-DPT0026-028.0	06/25/09	66	102	97	100	Pass	Pass	Pass	Pass
CRHEA-DPT0026-038.0	06/25/09	66	102	96	99	Pass	Pass	Pass	Pass
CRHEA-DPT0026-043.0	06/25/09	66	106	94	101	Pass	Pass	Pass	Pass
CRHEA-DPT0026-048.0	06/25/09	67	106	96	98	Pass	Pass	Pass	Pass
CRHEA-DPT0026-063.0	06/25/09	67	105	89	97	Pass	Pass	Pass	Pass
CRHEA-DPT0027-010.0	06/25/09	68	105	96	101	Pass	Pass	Pass	Pass
CRHEA-DPT0027-018.0	06/25/09	61	98	91	91	Pass	Pass	Pass	Pass
CRHEA-DPT0027-028.0	06/25/09	67	104	93	98	Pass	Pass	Pass	Pass
CRHEA-DPT0027-038.0 1:5	06/25/09	65	102	98	110	Pass	Pass	Pass	Pass
CRHEA-DPT0027-043.0	06/25/09	64	100	93	103	Pass	Pass	Pass	Pass
CRHEA-DPT0026-038.0 1:5	06/25/09	66	106	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0027-048.0	06/25/09	67	108	94	99	Pass	Pass	Pass	Pass
CRHEA-DPT0027-063.0	06/25/09	67	103	98	101	Pass	Pass	Pass	Pass
CRHEA-DPT0027-038.0 1:20	06/25/09	68	107	96	96	Pass	Pass	Pass	Pass
CRHEA-DPT0027-043.0 1:5	06/25/09	66	104	92	98	Pass	Pass	Pass	Pass
CRHEA-DPT0027-010.0 MS	06/25/09	72	94	104	100	Pass	Pass	Pass	Pass
CRHEA-DPT0027-010.0 MSD	06/25/09	82	100	98	98	Pass	Pass	Pass	Pass
CCS 20	06/25/09	75	94	95	96	Pass	Pass	Pass	Pass
CCS 20	06/26/09	79	77	98	95	Pass	Pass	Pass	Pass
LCS 20	06/26/09	88	88	104	105	Pass	Pass	Pass	Pass
BLANK	06/26/09	100	88	94	93	Pass	Pass	Pass	Pass
CRHEA-DPT0028-010.0	06/26/09	92	89	100	95	Pass	Pass	Pass	Pass
CRHEA-DPT0028-018.0	06/26/09	74	90	105	94	Pass	Pass	Pass	Pass
CRHEA-DPT0028-028.0 1:5	06/26/09	78	98	91	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHEA-DPT0028-038.0 1:20	06/26/09	75	97	97	98	Pass	Pass	Pass	Pass
CRHEA-DPT0028-043.0 1:5	06/26/09	79	103	92	95	Pass	Pass	Pass	Pass
CRHEA-DPT0028-048.0	06/26/09	76	99	92	98	Pass	Pass	Pass	Pass
CRHEA-DPT0028-063.0	06/26/09	83	90	89	101	Pass	Pass	Pass	Pass
CRHEA-DPT0029-010.0	06/26/09	74	101	100	99	Pass	Pass	Pass	Pass
CRHEA-DPT0029-018.0	06/26/09	68	101	94	100	Pass	Pass	Pass	Pass
CRHEA-DPT0029-028.0	06/26/09	65	97	91	93	Pass	Pass	Pass	Pass
CRHEA-DPT0029-038.0	06/26/09	63	98	97	99	Pass	Pass	Pass	Pass
CRHEA-DPT0029-043.0	06/26/09	63	97	91	100	Pass	Pass	Pass	Pass
CRHEA-DPT0029-048.0	06/26/09	67	101	93	102	Pass	Pass	Pass	Pass
CRHEA-DPT0029-063.0	06/26/09	63	97	94	94	Pass	Pass	Pass	Pass
CRHEA-DPT0029-010.0 MS	06/26/09	72	100	106	108	Pass	Pass	Pass	Pass
CRHEA-DPT0029-010.0 MSD	06/26/09	74	102	105	102	Pass	Pass	Pass	Pass
CRHEA-DPT0030-010.0	06/26/09	64	102	93	99	Pass	Pass	Pass	Pass
CRHEA-DPT0030-018.0	06/26/09	62	100	93	101	Pass	Pass	Pass	Pass
CRHEA-DPT0030-028.0	06/26/09	67	105	91	95	Pass	Pass	Pass	Pass
CRHEA-DPT0030-038.0	06/26/09	66	104	101	94	Pass	Pass	Pass	Pass
CRHEA-DPT0030-043.0	06/26/09	66	105	95	92	Pass	Pass	Pass	Pass
CRHEA-DPT0030-048.0	06/26/09	66	103	91	98	Pass	Pass	Pass	Pass
CRHEA-DPT0030-063.0	06/26/09	63	97	94	97	Pass	Pass	Pass	Pass
CCS 20	06/26/09	60	104	97	100	< LCL	Pass	Pass	Pass
BLANK/BFB	07/16/09	70	76	100	110	Pass	Pass	Pass	Pass
VSTD 20	07/16/09	75	86	99	100	Pass	Pass	Pass	Pass
RSTD 20	07/16/09	66	72	92	106	Pass	Pass	Pass	Pass
BLANK	07/16/09	69	84	96	107	Pass	Pass	Pass	Pass
CRHE-DPT0032-010.0 1:5	07/16/09	67	75	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0032-018.0	07/16/09	61	68	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0032-028.0	07/16/09	61	71	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0032-038.0	07/16/09	62	74	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0032-043.0	07/16/09	64	81	86	95	Pass	Pass	Pass	Pass
CRHE-DPT0032-010.0	07/16/09	56	72	95	94	< LCL	Pass	Pass	Pass
CRHE-DPT0032-048.0	07/16/09	57	64	91	92	< LCL	Pass	Pass	Pass
CRHE-DPT0032-063.0	07/16/09	62	102	92	97	Pass	Pass	Pass	Pass
CRHE-DPT0031-010.0	07/16/09	59	88	97	98	< LCL	Pass	Pass	Pass
CRHE-DPT0031-018.0	07/16/09	87	94	83	92	Pass	Pass	Pass	Pass
CRHE-DPT0031-028.0	07/16/09	100	97	89	92	Pass	Pass	Pass	Pass
CRHE-DPT0031-038.0	07/16/09	78	101	94	95	Pass	Pass	Pass	Pass
CRHE-DPT0031-043.0	07/16/09	76	94	88	95	Pass	Pass	Pass	Pass
CRHE-DPT0031-048.0	07/16/09	98	91	85	88	Pass	Pass	Pass	Pass
CRHE-DPT0031-063.0	07/16/09	97	95	88	86	Pass	Pass	Pass	Pass
CRHE-DPT0033-010.0	07/16/09	100	99	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0033-018.0 1:10	07/16/09	95	93	89	98	Pass	Pass	Pass	Pass
CRHE-DPT0033-028.0 1:10	07/16/09	97	92	96	95	Pass	Pass	Pass	Pass
CRHE-DPT033-038.0	07/16/09	97	93	100	97	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT033-043.0 1:5	07/16/09	102	97	89	97	Pass	Pass	Pass	Pass
CRHE-DPT033-048.0	07/16/09	98	91	89	102	Pass	Pass	Pass	Pass
CRHE-DPT033-063.0	07/16/09	98	93	92	101	Pass	Pass	Pass	Pass
CRHE-DPT0031-010.0 MS	07/17/09	80	82	92	104	Pass	Pass	Pass	Pass
CRHE-DPT0031-010.0 MSD	07/17/09	90	85	100	109	Pass	Pass	Pass	Pass
VSTD 20	07/17/09	93	83	89	104	Pass	Pass	Pass	Pass
RSTD 20	07/17/09	90	82	94	89	Pass	Pass	Pass	Pass
BLANK/BFB	07/17/09	68	79	86	104	Pass	Pass	Pass	Pass
VSTD 20	07/17/09	71	76	98	107	Pass	Pass	Pass	Pass
RSTD 20	07/17/09	88	80	96	101	Pass	Pass	Pass	Pass
BLANK	07/17/09	96	87	105	99	Pass	Pass	Pass	Pass
CRHE-DPT0031-038.0 1:2	07/17/09	88	79	94	100	Pass	Pass	Pass	Pass
CRHE-DPT0033-018.0	07/17/09	94	87	88	101	Pass	Pass	Pass	Pass
CRHE-DPT033-028.0	07/17/09	98	94	95	97	Pass	Pass	Pass	Pass
CRHE-DPT034-010.0	07/17/09	96	86	110	99	Pass	Pass	Pass	Pass
CRHE-DPT034-018.0	07/17/09	80	89	98	89	Pass	Pass	Pass	Pass
CRHE-DPT034-036.0	07/17/09	96	90	87	92	Pass	Pass	Pass	Pass
CRHE-DPT034-028.0	07/17/09	92	88	91	91	Pass	Pass	Pass	Pass
CRHE-DPT034-043.0	07/17/09	74	81	83	92	Pass	Pass	Pass	Pass
CRHE-DPT034-048.0	07/17/09	82	91	87	98	Pass	Pass	Pass	Pass
CRHE-DPT034-063.0	07/17/09	91	89	87	96	Pass	Pass	Pass	Pass
CRHE-DPT035-010.0	07/17/09	5	88	98	96	< LCL	Pass	Pass	Pass
CRHE-DPT035-018.0	07/17/09	96	103	86	101	Pass	Pass	Pass	Pass
CRHE-DPT035-028.0	07/17/09	69	95	97	97	Pass	Pass	Pass	Pass
CRHE-DPT035-010.0	07/17/09	0	92	88	94	< LCL	Pass	Pass	Pass
CRHE-DPT035-038.0	07/17/09	54	87	92	95	< LCL	Pass	Pass	Pass
CRHE-DPT035-043.0	07/17/09	61	96	84	96	Pass	Pass	Pass	Pass
CRHE-DPT035-048.0	07/17/09	62	97	84	98	Pass	Pass	Pass	Pass
CRHE-DPT035-063.0	07/17/09	56	96	92	95	< LCL	Pass	Pass	Pass
CRHE-DPT036-010.0	07/17/09	51	88	49	204	< LCL	Pass	< LCL	> UCL
CRHE-DPT036-018.0	07/17/09	57	94	90	93	< LCL	Pass	Pass	Pass
CRHE-DPT036-028.0	07/17/09	69	94	92	95	Pass	Pass	Pass	Pass
CRHE-DPT036-038.0 1:100	07/17/09	57	93	86	93	< LCL	Pass	Pass	Pass
CRHE-DPT036-043.0 1:2	07/17/09	95	95	100	99	Pass	Pass	Pass	Pass
CRHE-DPT036-048.0	07/17/09	82	96	86	92	Pass	Pass	Pass	Pass
CRHE-DPT036-063.0	07/17/09	101	98	86	94	Pass	Pass	Pass	Pass
CRHE-DPT036-028.0 1:2	07/17/09	91	87	87	85	Pass	Pass	Pass	Pass
CRHE-DPT036-048 MS	07/17/09	95	85	98	90	Pass	Pass	Pass	Pass
CRHE-DPT036-048 MSD	07/17/09	92	84	102	96	Pass	Pass	Pass	Pass
CRHE-DPT031-038 1:5	07/17/09	113	91	98	86	Pass	Pass	Pass	Pass
CRHE-DPT031-043 1:5	07/17/09	114	97	96	79	Pass	Pass	Pass	Pass
CRHE-DPT033-038 1:5	07/17/09	120	99	95	78	Pass	Pass	Pass	Pass
CRHE-DPT033-043 1:20	07/17/09	114	100	96	77	Pass	Pass	Pass	Pass
CRHE-DPT033-48 1:2	07/17/09	121	97	97	79	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK/BFB	08/04/09	113	98	81	104	Pass	Pass	Pass	Pass
VSTD 20	08/04/09	113	93	105	100	Pass	Pass	Pass	Pass
RSTD 20	08/04/09	102	88	91	89	Pass	Pass	Pass	Pass
VSTD 20	08/04/09	97	87	104	98	Pass	Pass	Pass	Pass
BLANK	08/04/09	93	87	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0037-010.0	08/04/09	99	97	91	97	Pass	Pass	Pass	Pass
CRHE-DPT0037-018.0	08/04/09	115	111	95	108	Pass	Pass	Pass	Pass
CRHE-DPT0037-026.0	08/04/09	102	99	89	91	Pass	Pass	Pass	Pass
CRHE-DPT0037-038.0	08/04/09	81	100	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0037-043.0	08/04/09	90	80	97	85	Pass	Pass	Pass	Pass
CRHE-DPT0037-048.0	08/04/09	92	85	87	98	Pass	Pass	Pass	Pass
CRHE-DPT0037-063.0	08/04/09	79	79	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0038-018.0	08/04/09	65	86	97	90	Pass	Pass	Pass	Pass
CRHE-DPT0038-028.0	08/04/09	77	96	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0038-010.0	08/04/09	62	94	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0038-038.0	08/04/09	71	98	82	110	Pass	Pass	Pass	Pass
CRHE-DPT0038-043.0	08/04/09	63	102	90	90	Pass	Pass	Pass	Pass
CRHE-DPT0038-048.0	08/04/09	62	102	89	96	Pass	Pass	Pass	Pass
CRHE-DPT0038-063.0	08/04/09	58	102	88	93	< LCL	Pass	Pass	Pass
CRHE-DPT0039-010.0	08/04/09	49	79	81	81	< LCL	Pass	Pass	Pass
CCS 20	08/05/09	79	108	106	98	Pass	Pass	Pass	Pass
LCS 20	08/05/09	79	98	93	96	Pass	Pass	Pass	Pass
BLANK	08/05/09	78	101	89	94	Pass	Pass	Pass	Pass
CRHE-DPT0039-018.0	08/05/09	77	93	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-028.0	08/05/09	79	80	88	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-038.0 1:5	08/05/09	72	95	93	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-043.0	08/05/09	76	96	89	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-048.0	08/05/09	76	90	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0039-063.0	08/05/09	74	85	87	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-038.0 1:20	08/05/09	73	83	88	89	Pass	Pass	Pass	Pass
CRHE-DPT0040-010.0 1:5	08/05/09	77	76	92	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-010.0	08/05/09	74	69	88	101	Pass	Pass	Pass	Pass
CRHE-DPT0040-018.0	08/05/09	82	82	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-028.0 1:2	08/05/09	84	79	93	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-038.0	08/05/09	79	78	112	91	Pass	Pass	Pass	Pass
CRHE-DPT0040-043.0	08/05/09	76	74	87	89	Pass	Pass	Pass	Pass
CRHE-DPT0040-048.0	08/05/09	73	71	91	98	Pass	Pass	Pass	Pass
CRHE-DPT0040-063.0	08/05/09	81	80	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0041-010.0	08/05/09	80	83	91	97	Pass	Pass	Pass	Pass
CRHE-DPT0041-018.0	08/05/09	80	75	94	103	Pass	Pass	Pass	Pass
CRHE-DPT0041-028.0	08/05/09	78	89	91	102	Pass	Pass	Pass	Pass
CRHE-DPT0041-038.0	08/05/09	94	86	93	89	Pass	Pass	Pass	Pass
CRHE-DPT0039-063.0 MS	08/05/09	72	73	91	95	Pass	Pass	Pass	Pass
CRHE-DPT0039-063.0 MSD	08/05/09	99	81	102	102	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-107
On-site Dates: 6/21/09-8/6/09	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0040-038.0 1:10	08/05/09	78	85	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0040-043.0 1:10	08/05/09	79	88	102	98	Pass	Pass	Pass	Pass
RSTD 20	08/06/09	79	96	100	102	Pass	Pass	Pass	Pass
VSTD 20	08/06/09	76	84	99	91	Pass	Pass	Pass	Pass
BLANK	08/06/09	84	93	93	96	Pass	Pass	Pass	Pass
CRHE-DPT0041-043.0	08/06/09	83	82	80	104	Pass	Pass	Pass	Pass
CRHE-DPT0041-048.0	08/06/09	68	73	88	89	Pass	Pass	Pass	Pass
CRHE-DPT0041-063.0	08/06/09	78	94	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0042-010.0	08/06/09	74	93	95	101	Pass	Pass	Pass	Pass
CRHE-DPT0042-018.0	08/06/09	72	88	78	93	Pass	Pass	< LCL	Pass
CRHE-DPT0042-028.0	08/06/09	70	91	87	96	Pass	Pass	Pass	Pass
CRHE-DPT0042-038.0 1:2	08/06/09	72	96	90	98	Pass	Pass	Pass	Pass
CRHE-DPT0042-048.0	08/06/09	86	98	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0042-063.0	08/06/09	78	98	87	89	Pass	Pass	Pass	Pass
CRHE-DPT0042-043.0	08/06/09	74	97	84	86	Pass	Pass	Pass	Pass
CRHE-DPT0042-038.0 1:10	08/06/09	66	89	88	94	Pass	Pass	Pass	Pass
CRHE-DPT0042-043.0 1:20	08/06/09	56	88	92	87	< LCL	Pass	Pass	Pass
CRHE-DPT0043-010.0	08/06/09	56	87	84	91	< LCL	Pass	Pass	Pass
CRHE-DPT0043-018.0	08/06/09	63	96	88	98	Pass	Pass	Pass	Pass
CRHE-DPT0043-028.0	08/06/09	63	98	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0043-043.0	08/06/09	67	95	88	100	Pass	Pass	Pass	Pass
CRHE-DPT0043-048.0 1:2	08/06/09	71	96	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0043-038.0 1:10	08/06/09	62	101	92	99	Pass	Pass	Pass	Pass
CRHE-DPT0043-063.0	08/06/09	52	80	101	84	< LCL	Pass	Pass	Pass
CRHE-DPT0043-028.0	08/06/09	63	98	93	94	Pass	Pass	Pass	Pass
CRHE-DPT0042-010.0 MS	08/06/09	59	90	96	96	< LCL	Pass	Pass	Pass
CRHE-DPT0042-010.0 MSD	08/06/09	64	107	88	98	Pass	Pass	Pass	Pass
VSTD 20	08/06/09	61	107	92	94	Pass	Pass	Pass	Pass
RSTD 20	08/06/09	64	99	92	95	Pass	Pass	Pass	Pass
VSTD 20	08/06/09	61	82	105	97	Pass	Pass	Pass	Pass
BLANK	08/06/09	79	102	86	100	Pass	Pass	Pass	Pass
CRHE-DPT0044-033	08/06/09	68	95	92	94	Pass	Pass	Pass	Pass
CRHE-DPT044-038	08/06/09	98	97	88	94	Pass	Pass	Pass	Pass
CRHE-DPT044-043 1:5	08/06/09	112	103	95	94	Pass	Pass	Pass	Pass
CRHE-DPT044-048 1:2	08/06/09	108	98	87	96	Pass	Pass	Pass	Pass
CRHE-DPT0043-018.0 MS	08/06/09	96	83	92	93	Pass	Pass	Pass	Pass
CRHE-DPT0043-018.0 MSD	08/06/09	103	99	92	102	Pass	Pass	Pass	Pass
CCS 20	08/06/09	101	88	107	100	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (61% - 144%)
S2 = 1,2- Dichloroethane-D4 (64% - 138%)
S3 = Toluene-D8 (80% - 119%)
S4 = 4-Bromofluorobenzene (71% - 132%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHEA-DPT0019-010.0 **Date of Analysis:** 6/22/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	93	91	2	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	100	93	8	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	98	91	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	94	86	9	Pass	Pass	Pass
Trichloroethene	67	132	20	101	96	5	Pass	Pass	Pass
Tetrachloroethene	67	133	20	101	98	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0020-010.0 **Date of Analysis:** 6/23/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	88	100	13	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	95	110	14	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	95	109	13	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	94	104	10	Pass	Pass	Pass
Trichloroethene	67	132	20	97	111	14	Pass	Pass	Pass
Tetrachloroethene	67	133	20	96	111	15	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0023-010.0 **Date of Analysis:** 6/24/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	92	91	1	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	103	108	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	104	112	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	97	105	7	Pass	Pass	Pass
Trichloroethene	67	132	20	104	113	8	Pass	Pass	Pass
Tetrachloroethene	67	133	20	113	108	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0025-010.0 **Date of Analysis:** 6/25/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	92	87	6	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	105	99	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	102	98	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	99	97	2	Pass	Pass	Pass
Trichloroethene	67	132	20	108	101	7	Pass	Pass	Pass
Tetrachloroethene	67	133	20	106	101	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Samples: CRHEA-DPT0027-010.0 **Date of Analysis:** 6/25/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	86	92	7	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	101	107	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	101	109	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	99	106	7	Pass	Pass	Pass
Trichloroethene	67	132	20	108	113	4	Pass	Pass	Pass
Tetrachloroethene	67	133	20	109	106	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHEA-DPT0029-010.0 **Date of Analysis:** 6/26/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	87	82	7	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	92	95	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	95	99	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	93	97	4	Pass	Pass	Pass
Trichloroethene	67	132	20	103	102	2	Pass	Pass	Pass
Tetrachloroethene	67	133	20	109	113	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0031-010.0 **Date of Analysis:** 7/16/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	90	90	1	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	97	98	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	92	95	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	91	92	2	Pass	Pass	Pass
Trichloroethene	67	132	20	88	91	2	Pass	Pass	Pass
Tetrachloroethene	67	133	20	90	89	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0036-048.9 **Date of Analysis:** 7/17/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	86	83	3	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	87	83	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	85	79	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	80	76	5	Pass	Pass	Pass
Trichloroethene	67	132	20	89	84	6	Pass	Pass	Pass
Tetrachloroethene	67	133	20	93	92	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Samples: CRHE-DPT0039-063.0 **Date of Analysis:** 8/6/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	83	65	24	Pass	Pass	> RPDL
1,1-Dichloroethene	61	137	20	75	81	7	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	72	82	13	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	76	87	13	Pass	Pass	Pass
Trichloroethene	67	132	20	83	90	9	Pass	Pass	Pass
Tetrachloroethene	67	133	20	82	101	21	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0042-010.0 **Date of Analysis:** 8/6/2009

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	58	135	20	85	83	2	Pass	Pass	Pass
1,1-Dichloroethene	61	137	20	97	95	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	94	97	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	136	20	85	88	3	Pass	Pass	Pass
Trichloroethene	67	132	20	101	103	2	Pass	Pass	Pass
Tetrachloroethene	67	133	20	112	104	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 6/21/2009
LCS 2 — 6/22/2009
LCS 3 — 6/22/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	54	to	130	102	107	103	Pass	Pass	Pass
1,1-Dichloroethene	55	to	136	107	94	113	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	106	90	113	Pass	Pass	Pass
Cis-1,2-Dichloroethene	61	to	130	104	87	111	Pass	Pass	Pass
Trichloroethene	65	to	127	101	91	103	Pass	Pass	Pass
Tetrachloroethene	69	to	126	101	100	112	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 6/23/2009
LCS 5 — 6/24/2009
LCS 6 — 6/25/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	54	to	130	124	106	108	Pass	Pass	Pass
1,1-Dichloroethene	55	to	136	130	114	116	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	129	113	117	Pass	Pass	Pass
Cis-1,2-Dichloroethene	61	to	130	131	115	118	> UCL	Pass	Pass
Trichloroethene	65	to	127	116	106	106	Pass	Pass	Pass
Tetrachloroethene	69	to	126	115	105	117	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 6/26/2009
LCS 8 — 7/16/2009
LCS 9 — 7/17/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	54	to	130	101	114	102	Pass	Pass	Pass
1,1-Dichloroethene	55	to	136	110	95	89	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	110	87	86	Pass	Pass	Pass
Cis-1,2-Dichloroethene	61	to	130	115	82	83	Pass	Pass	Pass
Trichloroethene	65	to	127	103	94	88	Pass	Pass	Pass
Tetrachloroethene	69	to	126	115	85	84	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Herb Kelly, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-107
Onsite Dates: 6/21/09-8/6/09	**Client Project Manager:** Rebecca DaPrato	**Matrix**: Water

Samples: LCS 10, LCS 11, LCS 12 **Date of Analysis:** 7/17/2009, 8/4/2009, 8/5/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS#11	LCS#12	LCS#10	LCS#11	LCS#12
Vinyl Chloride	54	to	130	123	133	85	Pass	> UCL	Pass
1,1-Dichloroethene	55	to	136	105	131	83	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	101	138	83	Pass	> UCL	Pass
Cis-1,2-Dichloroethene	61	to	130	99	140	89	Pass	> UCL	Pass
Trichloroethene	65	to	127	90	118	91	Pass	Pass	Pass
Tetrachloroethene	69	to	126	93	109	97	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 13, LCS 14 **Date of Analysis:** 8/6/2009, 8/6/2009

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#13	LCS#14		LCS#13	LCS#114	
Vinyl Chloride	54	to	130	92	74		Pass	Pass	
1,1-Dichloroethene	55	to	136	89	75		Pass	Pass	
Trans-1,2-Dichloroethene	61	to	133	90	76		Pass	Pass	
Cis-1,2-Dichloroethene	61	to	130	92	78		Pass	Pass	
Trichloroethene	65	to	127	88	88		Pass	Pass	
Tetrachloroethene	69	to	126	99	93		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0017-010.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-018.0-20090622	6/22/09	Water	1	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-028.0-20090622	6/22/09	Water	1	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-038.0-20090622	6/22/09	Water	1, 5	**210**	<1.0	**1.1**	**1.6**	<1.0	<1.0
CRHE-DPT0017-043.0-20090622	6/22/09	Water	5	**42**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0017-048.0-20090622	6/22/09	Water	1	**11.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0017-063.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-010.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-018.0-20090622	6/22/09	Water	1	**3.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-028.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0018-038.0-20090622	6/22/09	Water	5	**78**	< 5.0	< 5.0	**6.1**	< 5.0	< 5.0
CRHE-DPT0018-043.0-20090622	6/22/09	Water	5	**270**	< 5.0	**4.2 I**	**300**	< 5.0	< 5.0
CRHE-DPT0018-048.0-20090622	6/22/09	Water	1, 5	**270**	<1.0	**4.0**	**120**	<1.0	<1.0
CRHE-DPT0018-063.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0019-010.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0019-018.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0019-028.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0019-038.0-20090622	6/22/09	Water	1	**8.3**	<1.0	**2.0**	**16.1**	<1.0	<1.0
CRHE-DPT0019-043.0-20090622	6/22/09	Water	5	**7.6**	< 5.0	< 5.0	**22**	< 5.0	< 5.0
CRHE-DPT0019-048.0-20090622	6/22/09	Water	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0019-063.0-20090622	6/22/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0020-010.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0020-018.0-20090623	6/23/09	Water	10	**65**	<10	<10	<10	<10	<10
CRHE-DPT0020-028.0-20090623	6/23/09	Water	1	**57.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0020-038.0-20090623	6/23/09	Water	5, 10	**540**	< 5.0	**13**	**800**	< 5.0	< 5.0
CRHE-DPT0020-043.0-20090623	6/23/09	Water	5, 10	**470**	< 5.0	**21**	**380**	< 5.0	< 5.0
CRHE-DPT0020-048.0-20090623	6/23/09	Water	1	**3.3**	< 1.0	< 1.0	**3.6**	< 1.0	< 1.0
CRHE-DPT0020-063.0-20090623	6/23/09	Water	1, 2	**120**	< 1.0	**3.4**	**140**	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0021-010.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0021-018.0-20090623	6/23/09	Water	1	**1.2**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0021-028.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0021-038.0-20090623	6/23/09	Water	1	**11.7**	< 1.0	**2.9**	**33.5**	< 1.0	< 1.0
CRHE-DPT0021-043.0-20090623	6/23/09	Water	1	**11.8**	< 1.0	**3.6**	**47.9**	< 1.0	< 1.0
CRHE-DPT0021-048.0-20090623	6/23/09	Water	1	**3.2**	< 1.0	< 1.0	**1.6**	< 1.0	< 1.0
CRHE-DPT0021-063.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0022-010.0-20090623	6/23/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-018.0-20090623	6/23/09	Water	1	**5.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-028.0-20090623	6/23/09	Water	1	**7.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-038.0-20090623	6/23/09	Water	1, 5	**230**	< 1.0	**1.4**	**2.3**	< 1.0	< 1.0
CRHE-DPT0022-043.0-20090624	6/24/09	Water	5	**16**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0022-048.0-20090624	6/24/09	Water	1	**3.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-063.0-20090624	6/24/09	Water	1	**4.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-010.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-018.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-028.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0023-038.0-20090624	6/24/09	Water	1	**11.6**	<1.0	**8.0**	**94.2**	<1.0	<1.0
CRHE-DPT0023-043.0-20090624	6/24/09	Water	1	**15.6**	<1.0	**4.0**	**52.4**	<1.0	<1.0
CRHE-DPT0023-048.0-20090624	6/24/09	Water	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0023-063.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-010.0-20090624	6/24/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-018.0-20090624	6/24/09	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-028.0-20090624	6/24/09	Water	1	**65.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0024-038.0-20090624	6/24/09	Water	10	**570**	< 10	**10**	**590**	< 10	< 10
CRHE-DPT0024-043.0-20090624	6/24/09	Water	5	**390**	< 5.0	**17**	**210**	< 5.0	< 5.0
CRHE-DPT0024-048.0-20090624	6/24/09	Water	1	**1.9**	< 1.0	< 1.0	**2.3**	< 1.0	< 1.0
CRHE-DPT0024-063.0-20090624	6/24/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0020-073.0-20090624	6/24/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0022-073.0-20090624	6/24/09	Water	1	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-010.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-018.0-20090625	6/25/09	Water	1	**11.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-028.0-20090625	6/25/09	Water	1	**12.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0025-038.0-20090625	6/25/09	Water	1	**67.3**	< 1.0	**1.1**	**8.1**	< 1.0	< 1.0
CRHE-DPT0025-043.0-20090625	6/25/09	Water	1	**4.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0025-048.0-20090625	6/25/09	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0025-063.0-20090625	6/25/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-010.0-20090625	6/25/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-018.0-20090625	6/25/09	Water	1	**24**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-028.0-20090625	6/25/09	Water	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-038.0-20090625	6/25/09	Water	1,5	**390**	<1.0	**3.2**	**42.8**	<1.0	<1.0
CRHE-DPT0026-043.0-20090625	6/25/09	Water	1	**27.9**	<1.0	**1.1**	**4.2**	<1.0	<1.0
CRHE-DPT0026-048.0-20090625	6/25/09	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0026-063.0-20090625	6/25/09	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0027-010.0-20090625	6/25/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0027-018.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0027-028.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0027-038.0-20090625	6/25/09	Water	5,20	**770**	< 5.0	**38**	**270**	< 5.0	< 5.0
CRHE-DPT0027-043.0-20090625	6/25/09	Water	1,5	**310**	< 1.0	**20.5**	**1.4**	< 1.0	< 1.0
CRHE-DPT0027-048.0-20090625	6/25/09	Water	1	**3.7**	< 1.0	< 1.0	<1.0	< 1.0	< 1.0
CRHE-DPT0027-063.0-20090625	6/25/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0028-010.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0028-018.0-20090626	6/26/09	Water	1	**2.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0028-028.0-20090626	6/26/09	Water	5	**6.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CRHE-DPT0028-038.0-20090626	6/26/09	Water	20	**290**	< 20	< 20	**1000**	< 20	< 20
CRHE-DPT0028-043.0-20090626	6/26/09	Water	5	**430**	< 5.0	**14**	**440**	< 5.0	< 5.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0028-048.0-20090626	6/26/09	Water	1	**3.2**	< 1.0	< 1.0	<1.0	< 1.0	< 1.0
CRHE-DPT0028-063.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-010.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-018.0-20090626	6/26/09	Water	1	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-028.0-20090626	6/26/09	Water	1	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-038.0-20090626	6/26/09	Water	1	**96.6**	< 1.0	< 1.0	**8.5**	< 1.0	< 1.0
CRHE-DPT0029-043.0-20090626	6/26/09	Water	1	**58.2**	< 1.0	< 1.0	**6.3**	< 1.0	< 1.0
CRHE-DPT0029-048.0-20090626	6/26/09	Water	1	**2.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0029-063.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-010.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-018.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-028.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0030-038.0-20090626	6/26/09	Water	1	**4.2**	< 1.0	**2.1**	**12.6**	< 1.0	< 1.0
CRHE-DPT0030-043.0-20090626	6/26/09	Water	1	**5.3**	< 1.0	**3.5**	**26.0**	< 1.0	< 1.0
CRHE-DPT0030-048.0-20090626	6/26/09	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0030-063.0-20090626	6/26/09	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0032-010.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-018.0-20090716	7/16/09	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-028.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-038.0-20090716	7/16/09	Water	1	**38.3**	<1.0	<1.0	**5.9**	<1.0	<1.0
CRHE-DPT0032-043.0-20090716	7/16/09	Water	1	**23.1**	<1.0	**1.0**	**12.3**	<1.0	<1.0
CRHE-DPT0032-048.0-20090716	7/16/09	Water	1	**5.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0032-063.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-010.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-018.0-20090716	7/16/09	Water	1	**32.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-028.0-20090716	7/16/09	Water	1	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0031-038.0-20090716	7/16/09	Water	1,2,5	**340**	<1.0	**2.9**	**67.9**	<1.0	<1.0
CRHE-DPT0031-043.0-20090716	7/16/09	Water	1,5	**200**	<1.0	**7.3**	**83.8**	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0031-048.0-20090716	7/16/09	Water	1	**9.3**	<1.0	<1.0	**1.5**	<1.0	<1.0
CRHE-DPT0031-063.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-010.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-018.0-20090716	7/17/09	Water	1	**2.1**	**2.4**	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-028.0-20090716	7/17/09	Water	1	<1.0	**1.9**	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0033-038.0-20090716	7/16/09	Water	1,5	**190**	<1.0	<1.0	**23.4**	<1.0	<1.0
CRHE-DPT0033-043.0-20090716	7/16/09	Water	5,20	**360**	**18**	**72**	**780**	<5.0	<5.0
CRHE-DPT0033-048.0-20090716	7/16/09	Water	1,2	**120**	<1.0	**2.3**	**13.7**	<1.0	<1.0
CRHE-DPT0033-063.0-20090716	7/16/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0034-010.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0034-018.0-20090717	7/17/09	Water	1	**4.8**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0034-036.0-20090717	7/17/09	Water	1	**22.8**	<1.0	**1.7**	**99.2**	<1.0	<1.0
CRHE-DPT0034-028.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0034-043.0-20090717	7/17/09	Water	2	**21**	<2.0	**2.8**	**140**	<2.0	<2.0
CRHE-DPT0034-048.0-20090717	7/17/09	Water	1	**15.6**	<1.0	<1.0	**18.5**	<1.0	<1.0
CRHE-DPT0034-063.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-010.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-018.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-028.0-20090717	7/17/09	Water	1	**6.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-038.0-20090717	7/17/09	Water	1	**69.8**	<1.0	<1.0	**9.6**	<1.0	<1.0
CRHE-DPT0035-043.0-20090717	7/17/09	Water	1	**13.8**	<1.0	<1.0	**5.2**	<1.0	<1.0
CRHE-DPT0035-048.0-20090717	7/17/09	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0035-063.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-010.0-20090717	7/17/09	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-018.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-028.0-20090717	7/17/09	Water	1, 2	**130**	<1.0	<1.0	**19.2**	<1.0	<1.0
CRHE-DPT0036-038.0-20090717	7/17/09	Water	100	**910**	<100	**280**	**2100**	<100	<100
CRHE-DPT0036-043.0-20090717	7/17/09	Water	2	**110**	<2.0	**19**	**130**	<2.0	<2.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0036-048.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0036-063.0-20090717	7/17/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-010.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-018.0-20090804	8/4/09	Water	1	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-026.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-038.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-043.0-20090804	8/4/09	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-048.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0037-063.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-010.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-018.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-028.0-20090804	8/4/09	Water	1	**11.4**	<1.0	<1.0	**6.0**	<1.0	<1.0
CRHE-DPT0038-038.0-20090804	8/4/09	Water	1	**17.7**	<1.0	**3.7**	**19.3**	<1.0	<1.0
CRHE-DPT0038-043.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-048.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0038-063.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0039-010.0-20090804	8/4/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0039-018.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0039-028.0-20090805	8/5/09	Water	1	**88.5**	<1.0	**1.5**	**48.2**	<1.0	<1.0
CRHE-DPT0039-038.0-20090805	8/5/09	Water	5, 20	**1200**	**5.3**	**290**	**730**	<5.0	<5.0
CRHE-DPT0039-043.0-20090805	8/5/09	Water	1	**7.3**	<1.0	<1.0	**2.0**	<1.0	<1.0
CRHE-DPT0039-048.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0039-063.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-010.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-018.0-20090805	8/5/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-028.0-20090805	8/5/09	Water	2	**130**	<2.0	<2.0	<2.0	<2.0	<2.0
CRHE-DPT0040-038.0-20090805	8/5/09	Water	1,10	**290**	<1.0	**5.5**	**2.3**	<1.0	<1.0
CRHE-DPT0040-043.0-20090805	8/5/09	Water	1,10	**460**	<1.0	**8.2**	**2.1**	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 09-107

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.21**	**0.45**	**0.20**	**0.28**	**0.26**	**0.18**
CRHE-DPT0040-048.0-20090805	8/6/09	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0040-063.0-20090805	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-010.0-20090805	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-018.0-20090805	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-028.0-20090805	8/6/09	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-038.0-20090805	8/6/09	Water	1	**60.8**	<1.0	<1.0	**7.6**	<1.0	<1.0
CRHE-DPT0041-043.0-20090806	8/6/09	Water	1	**99.1**	<1.0	<1.0	**15.1**	<1.0	<1.0
CRHE-DPT0041-048.0-20090806	8/6/09	Water	1	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0041-063.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-010.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-018.0-20090806	8/6/09	Water	1	**18.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-028.0-20090806	8/6/09	Water	1	**45.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0042-038.0-20090806	8/6/09	Water	2, 10	**570**	<2.0	**2.7**	**120**	<2.0	<2.0
CRHE-DPT0042-043.0-20090806	8/6/09	Water	1, 20	**430**	**1.7**	**15.4**	**290**	<1.0	<1.0
CRHE-DPT0042-048.0-20090806	8/6/09	Water	1	**21.2**	<1.0	<1.0	**1.9**	<1.0	<1.0
CRHE-DPT0042-063.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0043-010.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0043-018.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0043-028.0-20090806	8/6/09	Water	1	**29.3**	<1.0	**3.7**	**2.0**	<1.0	<1.0
CRHE-DPT0043-038.0-20090806	8/6/09	Water	10	**600**	<10	**47**	**28**	<10	<10
CRHE-DPT0043-043.0-20090806	8/6/09	Water	1	**4.7**	<1.0	<1.0	**3.0**	<1.0	<1.0
CRHE-DPT0043-048.0-20090806	8/6/09	Water	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
CRHE-DPT0043-063.0-20090806	8/6/09	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0044-033.0-20090806	8/6/09	Water	1	**2.3**	<1.0	<1.0	**9.6**	<1.0	<1.0
CRHE-DPT0044-038.0-20090806	8/6/09	Water	1	**3.9**	<1.0	<1.0	**20.8**	<1.0	<1.0
CRHE-DPT0044-043.0-20090806	8/6/09	Water	5	**17**	< 5.0	< 5.0	**79**	< 5.0	< 5.0
CRHE-DPT0044-048.0-20090806	8/6/09	Water	2	**34**	< 2.0	< 2.0	**13**	< 2.0	< 2.0

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☑ 6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Jan	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT / SAMPLE PRE FIX
CRHEA-DPT0017-010.0	6/22/09	0904		✓	6/22/09	0915		GW	2	✓				KB1-062209-1
-018.0		0916				0923								-2
-028.0		0929				0937								-3
-038.0		0944				0955								-4
-043.0		1050				1100								-5
-048.0		1110				1118								-6
-063.0		1130				1138								-7
DPT0018-010.0		1250				1314								-8
-018.0		1304				1314								-9
-028.0		1318				1328								-10
-038.0		1334				1345								-11
-043.0		1404				1410								-12
-048.0		1420				1428								-13
-063.0		1442				1451								-14
DPT0019-010.0		1604				1611								-15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/22/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☑ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE KSC, FL	
SAMPLERS	CONTACT PERSON: Jan	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0019-010.0	6/22/09	1614		✓	6/22/09	1620		GW	2	✓	KB1-062209-16
-028.0		1624				1632					-17
-038.0		1638				1648					-18
-043.0		1704				1712					-19
-48.0		1720				1726					-20
-63.0		1740				1751					-21
CRHEA-DPT0020-~~010.0~~ 010.1	6/23/09	~~0920~~ 0920			6/23/09	0933		GW	2	1	KB1-062309-1
-018.0		0938				0949					-2
-028.0		0957				1007					-3
-038.0		1018				1034					-4
-043.0		1053				1109					-5
-048.0		1119				1137					-6
-063.0		1145				1200					-7
DPT0021-010.0		1340				1355					-8

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB 1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Jan

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0021 -018.0	6/23/09	1404		✓	6/23/09	1414		GW	2	✓	KB1 - 062309 - 9
-028.0		1421				1433					-10
-038.0		1453				1505					-11
-043.0		1517				1530					-12
-048.0		1545				1557					-13
-063.0		1614				1635					-14
DPT022 -010.0		1654				1709					-15
-018.0		1708				1720					-16
-028.0		1724				1737					-17
-038.0		1745				1755					-18

N/A TL

6/23/09

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0022-043.0	6/24/09	0754		✓	6/24/09	0810		GW	2	✓	KB1-062409-1
-048.0		0822				0830					-2
-063.0		0851				0905					-3
DPT0023-010.0		0958				1011					-4
-018.0		1011				1025					-5
-028.0		1026				1039					-6
-038.0		1045				1057					-7
-43.0		1156				1210					-8
-048.0		1221				1233					-9
-063.0		1249				1300					-10
DPT0024-010.0		1331				1345					-11
-018.0		1401				1414					-12
-028.0		1422				1434					-13
-038.0		1449				1502					-14
-043.0		1511				1522					-15

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/24/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0024-048.0	6/24/09	1534		✓	6/24/09	1545		GW	2	✓	KB1-062409-16
CRHEA-DPT0024-63.0		1602				1615					-17
DPT0020-73		1653				1705					-18
DPT0022-73		1729				1742					-19
CRHEA-DPT0025-010.0	6/25/09	0817		✓	6/25/09	0830		GW	2	✓	KB1-062509-1
-018.0		0831				0845					-2
-028.0		0855				0910					-3
-038.0		0916				0935					-4
-043.0		0941				0952					-5
-048.0		1003				1014					-6
-063.0		1036				1050					-7
DPT0026-010.0		1110				1121					-8
-018.0		1210				1222					-9
-028.0		1229				1240					-10

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES					COMMENT / SAMPLE PRE FIX
CRHEA-BPT0026-038.0	6/25/09	1257		✓	6/25/09	1309		GW	2	✓					KB1-062509-11
-043.0		1321				1332									-12
-048.0		1343				1355									-13
-63.0		1409				1421									-14
BPT0027-010.0		1452				1504									-15
-018.0		1508				1521									-16
-028.0		1527				1541									-17
-038.0		1547				1600									-18
-043.0		1618				1630									-19
-048.0		1642				1654									-20
-063.0		1704				1716									-21

N/A TC 6/25/09

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/25/09

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRTE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRTEA-DPT0028-010.0	6/26/09	0724		✓	6/26/09	0805		GW	2	✓	KB1-062609-1
-018.0		0739									-2
-028.0		0757									-3
-038.0		0817				0830					-4
-043.0		0844				0856					-5
-048.0		0906				0915					-6
-063.0		934				945					-7
DPT0029-010.0		1009				1021					-8
-018.0		1023				1035					-9
-028.0		1041				1149					-10
-038.0		1101				1119					-11
-043.0		1214				1225					-12
-048.0		1239				1250					-13
-063.0		1305				1320					-14
DPT0030-010.0		1440				1452					-15

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-SPT0030-018.0	6/26/09	1457		✓	6/26/09	1510		GW	2	✓	KB1-062609-16
-028.0		1516				1527					-17
-038.0		1534				1546					-18
-043.0		1601				1614					-19
-048.0		1621				1632					-20
-063.0		1643				1655					-21

N/A TC 6/26/09

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (352) 367-0073
FAX (352) 367-0074

☐ 200 Quade Drive
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TEL (919) 678-0030

MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON: Jon	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0017-010.0	6/22/09	0904		✓	6/22/09	0915		GW	2	✓	KB1-062209-1
-018.0		0916				0923					-2
-028.0		0929				0937					-3
-038.0		0944				0955					-4
-043.0		1050				1100					-5
-048.0		1110				1118					-6
-063.0		1130				1138					-7
DPT0018-010.0		1250				1314					-8
-018.0		1304				1314					-9
-028.0		1318				1328					-10
-038.0		1334				1345					-11
-043.0		1404				1410					-12
-048.0		1420				1428					-13
-063.0		1442				1451					-14
DPT0019-010.0		1604				1611					-15

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 6/22/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE KSC, FL	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Jan	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0019-018.0	6/22/09	1614		✓	6/22/09	1620		GW	2	✓	KB1-062209-16
-028.0		1624				1632					-17
-038.0		1638				1648					-18
-043.0		1704				1712					-19
-48.0		1720				1726					-20
-63.0		1740				1751					-21
CRHEA-DPT0020-010.0	6/23/09	0920			6/23/09	0933		GW	2	1	KB1-062309-1
-018.0		0938				0949					-2
-028.0		0957				1007					-3
-038.0		1018				1034					-4
-043.0		1053				1109					-5
-048.0		1119				1137					-6
-063.0		1145				1200					-7
DPT0021-010.0		1340				1355					-8

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Jan

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0021 -018.0	6/23/09	1404		✓	6/23/09	1414		GW	2	✓	KB1 - 062309 - 9
-028.0		1421				1433					-10
-038.0		1453				1505					-11
-043.0		1517				1530					-12
-048.0		1545				1557					-13
-063.0		1614				1635					-14
DPT022 -010.0		1654				1709					-15
-018.0		1708				1720					-16
-028.0		1724				1737					-17
-038.0		1745				1755					-18

N/A TL 6/23/09

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			6/23/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0022-043.0	6/24/09	0759		✓	6/24/09	0810		GW	2	✓	KB1-062409-1
-048.0		0822				0830					-2
-063.0		0851				0905					-3
DPT0023-010.0		0958				1011					-4
-018.0		1011				1025					-5
-028.0		1026				1039					-6
-038.0		1045				1057					-7
-43.0		1156				1210					-8
-048.0		1221				1233					-9
-063.0		1249				1300					-10
DPT0024-010.0		1331				1345					-11
-018.0		1401				1414					-12
-028.0		1422				1434					-13
-038.0		1449				1502					-14
-043.0		1511				1522					-15

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			6/24/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-DPT0024-048.0	6/24/09	1534		✓	6/24/09	1545		GW	2	✓	KB1-062409-16
CRHEA-DPT0024-63.0		1602				1615					-17
DPT0020-73		1653				1705					-18
DPT0022-73		1729				1742					-19
CRHEA-DPT0025-010.0	6/25/09	0817		✓	6/25/09	0830		GW	2	✓	KB1-062509-1
-018.0		0831				0845					-2
-028.0		0855				0910					-3
-038.0		0916				0935					-4
-043.0		0941				0952					-5
-048.0		1003				1014					-6
-063.0		1036				1050					-7
DPT0026-010.0		1110				1121					-8
-018.0		1210				1222					-9
-028.0		1229				1240					-10

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHE	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-BPT0026-038.0	6/25/09	1257		✓	6/25/09	1309		GW	2	✓	KB1-062509-11
-043.0		1321				1332					-12
-048.0		1343				1355					-13
-063.0		1409				1421					-14
BPT0027-010.0		1452				1504					-15
-018.0		1508				1521					-16
-028.0		1527				1541					-17
-038.0		1547				1600					-18
-043.0		1618				1630					-19
-048.0		1642				1654					-20
-063.0		1704				1716					-21

N/A TC 6/25/09

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			6/25/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA CRHF	KSC, FL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	Alex	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHFA-DPT0028-010.0	6/26/09	0724		✓	6/26/09	0805		GW	2	✓	KB1-062609-1
-018.0		0739				↓					-2
-028.0		0757									-3
-038.0		0817				0830					-4
-043.0		0844				0856					-5
-048.0		0906				0915					-6
-063.0		934				945					-7
DPT0029-010.0		1009				1021					-8
-018.0		1023				1035					-9
-028.0		1041				1149					-10
-038.0		1101				1119					-11
-043.0		1214				1225					-12
-048.0		1239				1250					-13
-063.0		1305				1320					-14
DPT0030-010.0		1440				1452					-15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Alex

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHEA-PT0030-018.0	6/26/09	1457		✓	6/26/09	1510		GW	2	✓	KB1-062609-16
-028.0		1516				1527					-17
-038.0		1534				1546					-18
-043.0		1601				1614					-19
-048.0		1621				1632					-20
-063.0		1643				1655					-21

N/A TL 6/26/09

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/26/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRAE NASA CHAE KSC, FL

SAMPLERS

CONTACT PERSON: Ian Bartus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE-DPT0032-010.0	7/16/09	1228		✓	7/16/09	1430		GW	2	✓	
-018.0		1246									
-028.0		1256									
-038.0		1312									
-043.0		1336									
-48.0		1356				1645					
-63.0		1416				↓					
CRHE-DPT0031-010.0		0850				1745					
-018.0		0900									
-028.0		0910									
-038.0		0926									
-043.0		0958									
-048.0		1018									
-063.0		1036									
CRHE-DPT0033-010.0	↓	1458						↓			

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			7/16/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NAGA CRHE HSC, FL

SAMPLERS:

CONTACT PERSON: JAN BARFUS

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE-DPT033-018.0	7/16/09	1512		✓	7/16/09	1745		GW	2	✓	
-028.0		1618									
-038.0		1632									
-043.0		1700									
-048.0		1718									
-063.0		1734									

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			7/16/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: JAY BARFUS

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHE-DPT0034-010.0	7/17/09	0759		✓	7/17/09	0810		GW	2	✓	
-018.0		0811				0820					
-028.0		0826				0835					
-036.0		0844				0854					
-043.0		0914				0924					
-048.0		0933				0942					
-063.0		0953				1004					
CRHE-DPT0035-010.0		1044				1057					
-018.0		1058				1106					
-028.0		1108				1117					
-038.0		1216				1226					
-043.0		1230				1241	(HK) 7/17				
-048.0		1246				1305	1305				
-063.0		1312				1323					
CRHE-DPT0036-010.0		1406				1430					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* Hank Kelley	Date / Time 7/17/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CRHE KSC, FL

SAMPLERS

CONTACT PERSON: JAN BARFUS

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
CRHE-DPT0036-018.0	7/17/09	1416			7/17/09	1430		GW	2	✓	
-028.0		1432				1441					
-038.0		1446				1455					
-043.0		1512				1525					
-048.0		1528				1540					
-063.0		1546				1602					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			7/17/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
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MOBILE UNIT # KB1

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS:

CONTACT PERSON: Alex Rivera

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
CRHE-DPT0037-010.0-20090804	8/4/09	0900		✓	8/4/09	0900		W	2	✓				
-018.0		0915				0930								
-026.0		0932				0945								
-038.0		0952				1000								
-043.0		1036				1052								
-048.0		1058				1115								
-063.0		1123				1145								
DPT0038-010.0		1305				1350								
-019.0		1318				↓								
-028.0		1335												
-038.0		1354				1409								
-043.0		1434				1450								
-048.0		1456				1513								
-063.0		1525				1542								
DPT0039-010.0		1613				1628								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/4/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KBI

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE	KSGFL
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
	ALEX RIVERA	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE-DPT0039-01B0-20090805	8/5/09	0724		✓	8/5/09	1715		W	2	✓	
-028.0		0742									
-038.0		0807									
-043.0		0834									
-048.0		0855									
-063.0		0920									
DPT0040-010.0		0955									
-018.0		1008									
-028.0		1024									
-038.0		1044									
-043.0		1342									
-048.0		1404									
-063.0		1429									
DPT0041-010.0		1512									
-018.0		1525									

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Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		Alex Kelly	8/5/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON: JAN BARFUS

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE DPT0041-043.0-20090806	8/6/09	0740		✓	8/6/09	0753		W	2	✓	
-048.0		0758				0816					
-063.0		0822				0830					
DPT0042-010.0		0853			(H)	0910					
-018.0		0904				0915					
-028.0		0918				0930					
-038.0		0932				0940					
-043.0		0958				0958					
-048.0		1014				1025					
-063.0		1034				1050					
DPT0043-010.0		1156				1225					
-018.0		1212				↓					
-028.0		1226				1256					
-038.0		1240				↓					
-043.0	↓	1310		↓	↓	1355		↓	↓	↓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/6/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KBL

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CRHE	KSC, FL	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
RHE-DPT0043-033.0-20090806	8/6/09	1324		✓	8/6/09	1355		W	2	✓				
-043.0		1512				1530								
DPT0044-033.0		1600				1615								
-038.0		1618				1629								
-043.0		1632				1646								
-048.0		1650				1705								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* Hub Kelley	Date / Time 8/6/09	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KBI

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRITE — KSC, FL

SAMPLERS:

CONTACT PERSON: ALEX RIVERA

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
CRITE-DPT0041-028.0-20090805	8/5/09	1542		✓	8/5/09	1715		W	2	✓				
-0380		1601												

Page 48 of 48

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

8/5/09

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

February 5, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 09-275

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from January 25 to February 2, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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Newberry, FL 32669
Phone: 352-472-5830
Fax: 352-472-5832
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From January 25 to February 3, 2010, a total of 181 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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Newberry, FL 32669
Phone: 352-472-5830
Fax: 352-472-5832
Email: info@kbmobilelabs.com

ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Changes for sample ID CRHE-DPT0046-038.0-20100125 reported:
   vinyl chloride <1.0 changed to 10.0ug/L.
   t-1,2-dichlprothene <1.0 changed to 1.8 ug/L.
   c-1,2-dichloroethene <1.0 changed to 6.7 ug/L.

3. Changes for sample ID CRHE-DPT0053-028.0-20100127 reported:
   vinyl chloride <1.0 changed to 90.9ug/L.
   c-1,2-dichloroethene <1.0 changed to 2.3ug/L.

4. Changes for sample ID CRHE-DPT0073-038.0-20100203 reported:
   c-1,2-dichloroethene 1.6 changed to <1.0ug/L.
   trichloroethene <1.0 changed to 1.6ug/L.

5. Sample ID CRHE-DPT0050-038.0-20100126 has an "L" qualifier for vinyl chloride indicating the concentration exceeded Calibration range.

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6. Sample ID CRHE-DPT0052-028.0-20100127 has an “L” qualifier for vinyl chloride indicating the concentration exceeded Calibration range.

7. Sample ID CRHE-DPT0055-038.0-20100127 has an “L” qualifier for vinyl chloride indicating the concentration exceeded Calibration range.

8. Freon 113 was detected in a couple of samples as a TIC.

CRHE-DPT0069-010.0	1080 ug/L
CRHE-DPT0069-018.0	20 ug/

9. Compound 1,1-dichlorethane was also detected as a TIC during the project. As per client, values have been reported along with J estimation DQ.

10. During first week of project work, GCMS had some instrumental difficulties maintaining calibration tune. Client was notified. Samples possibly affected for vinyl chloride were reran on 1/28 after instrument tune was fixed.

11. All references to CHRE were changed to CRHE, the correct NASA KSC Site Location ID. Samples on COC are labeled CRHE.

12. Client had site ID’s DPT04XX changed to DPT00XX. Noted on the COCs.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	01/25/10	101	105	98	102	Pass	Pass	Pass	Pass
LCS 20	01/25/10	101	100	96	96	Pass	Pass	Pass	Pass
BLANK	01/25/10	105	94	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0045-018.0	01/25/10	104	100	96	101	Pass	Pass	Pass	Pass
CRHE-DPT0045-028.0	01/25/10	104	92	94	91	Pass	Pass	Pass	Pass
CRHE-DPT0045-038.0	01/25/10	103	104	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0045-044.0	01/25/10	102	93	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0045-018.0 MS	01/25/10	101	88	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0045-018.0 MSD	01/25/10	104	90	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0045-048.0	01/25/10	108	96	92	89	Pass	Pass	Pass	Pass
CRHE-DPT0045-058.0	01/25/10	106	97	95	90	Pass	Pass	Pass	Pass
CRHE-DPT0046-018.0	01/25/10	103	88	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0046-028.0	01/25/10	105	93	96	89	Pass	Pass	Pass	Pass
CRHE-DPT0046-038.0	01/25/10	106	93	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0046-043.0	01/25/10	103	90	96	90	Pass	Pass	Pass	Pass
CRHE-DPT0046-048.0	01/25/10	99	98	109	92	Pass	Pass	Pass	Pass
CRHE-DPT0046-058.0	01/25/10	108	99	94	89	Pass	Pass	Pass	Pass
CRHE-DPT0046-010.0	01/25/10	106	92	92	91	Pass	Pass	Pass	Pass
CRHE-DPT0045-010.0	01/25/10	148	128	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0047-010.0	01/25/10	108	97	95	87	Pass	Pass	Pass	Pass
CRHE-DPT0047-018.0	01/25/10	135	107	93	83	Pass	Pass	Pass	Pass
CRHE-DPT0047-028.0	01/25/10	184	107	94	85	> UCL	Pass	Pass	Pass
CRHE-DPT0047-038.0	01/25/10	116	109	94	85	Pass	Pass	Pass	Pass
CRHE-DPT0047-043.0	01/25/10	99	105	174	83	Pass	Pass	> UCL	Pass
CRHE-DPT0047-048.0	01/25/10	98	109	173	83	Pass	Pass	> UCL	Pass
CRHE-DPT0047-058.0	01/25/10	199	173	94	85	> UCL	> UCL	Pass	Pass
CRHE-DPT0046-058.0 MS	01/25/10	96	110	93	89	Pass	Pass	Pass	Pass
CRHE-DPT0046-058.0 MSD	01/25/10	114	124	93	88	Pass	Pass	Pass	Pass
CCS 20	01/25/10	101	108	96	88	Pass	Pass	Pass	Pass
CCS 20	01/26/10	81	80	108	101	Pass	Pass	Pass	Pass
CCS 20	01/26/10	99	85	93	99	Pass	Pass	Pass	Pass
LCS 20	01/26/10	104	104	76	90	Pass	Pass	Pass	Pass
BLANK	01/26/10	102	103	92	86	Pass	Pass	Pass	Pass
CRHE-DPT0048-010.0	01/26/10	73	106	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0048-018.0	01/26/10	102	104	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0048-028.0	01/26/10	114	112	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0048-038.0 1:10	01/26/10	106	104	91	85	Pass	Pass	Pass	Pass
CRHE-DPT0048-043.0	01/26/10	106	98	92	83	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0048-048.0	01/26/10	114	99	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0048-058.0	01/26/10	102	100	100	81	Pass	Pass	Pass	Pass
CRHE-DPT0049-028.0	01/26/10	108	96	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0049-038.0	01/26/10	106	95	93	83	Pass	Pass	Pass	Pass
CRHE-DPT0049-043.0	01/26/10	107	98	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0049-048.0	01/26/10	104	97	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0	01/26/10	183	116	92	83	> UCL	Pass	Pass	Pass
CRHE-DPT0050-010.0	01/26/10	103	101	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0050-018.0	01/26/10	213	123	91	81	> UCL	Pass	Pass	Pass
CRHE-DPT0050-028.0	01/26/10	111	95	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0050-038.0	01/26/10	200	121	93	83	> UCL	Pass	Pass	Pass
CRHE-DPT0050-043.0	01/26/10	103	98	98	170	Pass	Pass	Pass	> UCL
CRHE-DPT0050-048.0	01/26/10	106	99	92	83	Pass	Pass	Pass	Pass
CRHE-DPT0050-058.0	01/26/10	123	122	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0048-038.0	01/26/10	98	108	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0050-038.0 1:10	01/26/10	221	125	90	84	> UCL	Pass	Pass	Pass
CRHE-DPT0051-028.0	01/26/10	126	129	89	83	Pass	Pass	Pass	Pass
CRHE-DPT0051-038.0	01/26/10	124	120	89	83	Pass	Pass	Pass	Pass
CRHE-DPT0051-043.0	01/26/10	112	98	90	81	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0 MS	01/26/10	122	125	92	87	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0 MSD	01/26/10	109	114	165	85	Pass	Pass	> UCL	Pass
CRHE-DPT0049-058.0 MS	01/26/10	124	124	92	88	Pass	Pass	Pass	Pass
CRHE-DPT0049-058.0 MSD	01/26/10	101	108	103	86	Pass	Pass	Pass	Pass
RSTD	01/26/10	137	125	92	89	Pass	Pass	Pass	Pass
RSTD	01/26/10	102	92	100	99	Pass	Pass	Pass	Pass
CCS 20	01/26/10	115	117	90	88	Pass	Pass	Pass	Pass
CCS 20	01/27/10	103	99	94	81	Pass	Pass	Pass	Pass
LCS 20	01/27/10	106	100	95	89	Pass	Pass	Pass	Pass
BLANK	01/27/10	111	102	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0051-048.0	01/27/10	122	96	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0051-058.0	01/27/10	104	104	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0052-028.0	01/27/10	121	124	89	83	Pass	Pass	Pass	Pass
CRHE-DPT0052-038.0	01/27/10	106	94	208	84	Pass	Pass	> UCL	Pass
CRHE-DPT0052-043.0	01/27/10	103	96	199	85	Pass	Pass	> UCL	Pass
CRHE-DPT0052-048.0	01/27/10	102	104	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0052-058.0	01/27/10	124	133	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0052-063.0	01/27/10	102	99	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0053-028.0	01/27/10	124	124	91	83	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0053-038.0	01/27/10	216	124	90	81	> UCL	Pass	Pass	Pass
CRHE-DPT0053-043.0	01/27/10	105	93	182	84	Pass	Pass	> UCL	Pass
CRHE-DPT0053-048.0	01/27/10	237	146	91	82	> UCL	Pass	Pass	Pass
CRHE-DPT0053-058.0	01/27/10	101	100	100	172	Pass	Pass	Pass	> UCL
CRHE-DPT0051-048.0 MS	01/27/10	103	96	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0051-048.0 MSD	01/27/10	122	123	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0051-048.0 MSD	01/27/10	232	158	93	87	> UCL	> UCL	Pass	Pass
CRHE-DPT0054-028.0	01/27/10	121	119	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0054-038.0	01/27/10	126	123	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0054-043.0	01/27/10	108	93	98	167	Pass	Pass	Pass	> UCL
CRHE-DPT0054-048.0	01/27/10	124	122	91	81	Pass	Pass	Pass	Pass
CRHE-DPT0054-058.0	01/27/10	105	93	192	81	Pass	Pass	> UCL	Pass
CRHE-DPT0054-063.0	01/27/10	129	118	91	83	Pass	Pass	Pass	Pass
CRHE-DPT0055-028.0	01/27/10	163	125	91	82	> UCL	Pass	Pass	Pass
CRHE-DPT0055-038.0	01/27/10	124	124	92	80	Pass	Pass	Pass	Pass
CRHE-DPT0055-043.0	01/27/10	109	99	89	81	Pass	Pass	Pass	Pass
CRHE-DPT0055-048.0	01/27/10	124	134	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0055-058.0	01/27/10	107	98	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0055-063.0	01/27/10	124	138	88	81	Pass	Pass	Pass	Pass
CRHE-DPT0052-028.0 1:10	01/27/10	238	136	90	83	> UCL	Pass	Pass	Pass
CRHE-DPT0053-038.0	01/27/10	129	136	88	82	Pass	Pass	Pass	Pass
CRHE-DPT0054-058.0 MS	01/27/10	102	91	98	173	Pass	Pass	Pass	> UCL
CRHE-DPT0054-058.0 MSD	01/27/10	128	145	90	87	Pass	Pass	Pass	Pass
CRHE-DPT0054-058.0 MSD	01/27/10	106	105	97	107	Pass	Pass	Pass	Pass
VSTD 20	01/27/10	125	148	90	86	Pass	Pass	Pass	Pass
CCS 20	01/28/10	102	85	98	100	Pass	Pass	Pass	Pass
LCS 20	01/28/10	105	104	102	96	Pass	Pass	Pass	Pass
BLANK	01/28/10	128	147	88	80	Pass	Pass	Pass	Pass
CRHE-DPT0056-010.0	01/28/10	108	96	989	82	Pass	Pass	> UCL	Pass
CRHE-DPT0056-018.0	01/28/10	262	182	89	82	> UCL	> UCL	Pass	Pass
CRHE-DPT0056-028.0	01/28/10	104	94	98	116	Pass	Pass	Pass	Pass
CRHE-DPT0056-038.0	01/28/10	128	136	90	72	Pass	Pass	Pass	Pass
CRHE-DPT0056-043.0	01/28/10	109	95	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0056-048.0	01/28/10	108	96	192	82	Pass	Pass	> UCL	Pass
CRHE-DPT0056-058.0	01/28/10	237	196	91	82	> UCL	> UCL	Pass	Pass
CRHE-DPT0057-028.0	01/28/10	110	92	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0057-038.0	01/28/10	108	91	194	84	Pass	Pass	> UCL	Pass
CRHE-DPT0057-043.0	01/28/10	116	97	90	82	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0057-048.0	01/28/10	133	140	89	84	Pass	Pass	Pass	Pass
CRHE-DPT0057-058.0	01/28/10	123	134	89	85	Pass	Pass	Pass	Pass
CRHE-DPT0056-018.0	01/28/10	129	134	90	65	Pass	Pass	Pass	< LCL
CRHE-DPT0057-048.0	01/28/10	106	103	141	82	Pass	Pass	> UCL	Pass
CRHE-DPT0058-028.0	01/28/10	129	134	90	80	Pass	Pass	Pass	Pass
CRHE-DPT0058-038.0	01/28/10	127	135	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0056-018.0	01/28/10	129	134	90	65	Pass	Pass	Pass	< LCL
CRHE-DPT0058-043.0	01/28/10	131	136	90	73	Pass	Pass	Pass	Pass
CRHE-DPT0056-010.0 MS	01/28/10	95	36	109	173	Pass	< LCL	Pass	> UCL
CRHE-DPT0058-048.0	01/28/10	99	101	96	102	Pass	Pass	Pass	Pass
CRHE-DPT0058-058.0	01/28/10	99	99	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0058-063.0	01/28/10	104	104	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0059-028.0	01/28/10	102	108	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0057-058.0 MS	01/28/10	95	107	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0057-058.0 MSD	01/28/10	97	113	101	106	Pass	Pass	Pass	Pass
CRHE-DPT0059-038.0	01/28/10	96	113	98	104	Pass	Pass	Pass	Pass
CRHE-DPT0059-043.0	01/28/10	96	116	97	108	Pass	Pass	Pass	Pass
CRHE-DPT0059-048.0	01/28/10	94	114	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0059-058.0	01/28/10	95	113	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0060-028.0	01/28/10	95	114	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0060-038.0	01/28/10	95	119	100	107	Pass	Pass	Pass	Pass
VSTD 20	01/28/10	92	125	100	100	Pass	Pass	Pass	Pass
RSTD 20	01/28/10	94	114	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0055-028.0	01/28/10	95	111	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0055-038.0	01/28/10	92	116	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0055-043.0	01/28/10	94	113	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0055-048.0	01/28/10	95	119	100	106	Pass	Pass	Pass	Pass
BLANK	01/28/10	99	123	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0052-038.0	01/28/10	96	121	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0052-043.0	01/28/10	98	124	102	107	Pass	Pass	Pass	Pass
CRHE-DPT0058-058.0 MS	01/28/10	93	136	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0058-058.0 MSD	01/28/10	95	134	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0057-038.0	01/28/10	96	116	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0057-043.0	01/29/10	96	122	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0057-048.0	01/29/10	99	122	103	107	Pass	Pass	Pass	Pass
CRHE-DPT0056-038.0	01/29/10	98	126	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0060-038.0 1:10	01/29/10	99	128	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0056-043.0	01/29/10	98	121	103	112	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	01/29/10	92	126	101	100	Pass	Pass	Pass	Pass
CCS 20	01/29/10	92	127	100	101	Pass	Pass	Pass	Pass
LCS 20	01/29/10	89	126	101	99	Pass	Pass	Pass	Pass
BLANK	01/29/10	96	118	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0060-043.0 1:5	01/29/10	92	107	101	111	Pass	Pass	Pass	Pass
CRHE-DPT0057-038.0 1:10	01/29/10	97	120	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0061-028.0	01/29/10	95	114	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0061-038.0	01/29/10	98	122	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0061-028.0 MS	01/29/10	88	121	102	101	Pass	Pass	Pass	Pass
CRHE-DPT0061-028.0 MSD	01/29/10	90	117	102	102	Pass	Pass	Pass	Pass
CRHE-DPT0061-043.0	01/29/10	94	116	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0061-048.0	01/29/10	95	119	103	107	Pass	Pass	Pass	Pass
CRHE-DPT0061-058.0	01/29/10	96	120	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0061-063.0	01/29/10	96	120	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-010.0	01/29/10	95	122	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0062-018.0	01/29/10	96	123	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-028.0	01/29/10	94	118	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-038.0	01/29/10	97	121	104	110	Pass	Pass	Pass	Pass
CRHE-DPT0062-043.0	01/29/10	95	120	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0062-048.0	01/29/10	92	118	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0062-058.0	01/29/10	95	122	104	109	Pass	Pass	Pass	Pass
CRHE-DPT0063-028.0	01/29/10	94	119	102	111	Pass	Pass	Pass	Pass
CRHE-DPT0063-038.0	01/29/10	93	111	105	108	Pass	Pass	Pass	Pass
CRHE-DPT0063-043.0	01/29/10	92	112	104	112	Pass	Pass	Pass	Pass
CRHE-DPT0063-048.0	01/29/10	93	115	104	110	Pass	Pass	Pass	Pass
CRHE-DPT0063-058.0	01/29/10	97	117	104	107	Pass	Pass	Pass	Pass
VSTD 20	01/29/10	89	127	101	102	Pass	Pass	Pass	Pass
CCS 20	02/01/10	93	103	101	98	Pass	Pass	Pass	Pass
CCS 20	02/01/10	89	107	102	98	Pass	Pass	Pass	Pass
LCS 20	02/01/10	94	121	102	99	Pass	Pass	Pass	Pass
BLANK	02/01/10	95	115	104	106	Pass	Pass	Pass	Pass
CRHE-DPT0064-028.0	02/01/10	94	109	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0064-038.0	02/01/10	96	112	103	112	Pass	Pass	Pass	Pass
CRHE-DPT0064-043.0	02/01/10	97	113	104	109	Pass	Pass	Pass	Pass
CRHE-DPT0064-048.0	02/01/10	97	114	104	111	Pass	Pass	Pass	Pass
CRHE-DPT0064-058.0	02/01/10	93	109	106	111	Pass	Pass	Pass	Pass
CRHE-DPT0064-063.0	02/01/10	97	115	106	110	Pass	Pass	Pass	Pass
CRHE-DPT0065-028.0	02/01/10	97	115	104	113	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0065-038.0	02/01/10	94	113	105	110	Pass	Pass	Pass	Pass
CRHE-DPT0065-043.0	02/01/10	97	117	103	110	Pass	Pass	Pass	Pass
CRHE-DPT0065-048.0	02/01/10	94	117	104	111	Pass	Pass	Pass	Pass
CRHE-DPT0065-058.0	02/01/10	95	114	105	112	Pass	Pass	Pass	Pass
CRHE-DPT0065-063.0	02/01/10	95	118	105	110	Pass	Pass	Pass	Pass
CRHE-DPT0064-028.0 MS	02/01/10	87	119	104	100	Pass	Pass	Pass	Pass
CRHE-DPT0064-028.0 MSD	02/01/10	92	114	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0066-038.0	02/01/10	95	110	106	109	Pass	Pass	Pass	Pass
CRHE-DPT0066-028.0	02/01/10	96	112	105	109	Pass	Pass	Pass	Pass
CRHE-DPT0066-043.0	02/01/10	92	114	105	108	Pass	Pass	Pass	Pass
CRHE-DPT0066-048.0	02/01/10	94	119	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0066-058.0	02/01/10	94	115	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0067-010.0	02/01/10	96	119	105	108	Pass	Pass	Pass	Pass
CRHE-DPT0067-018.0	02/01/10	97	122	104	109	Pass	Pass	Pass	Pass
CRHE-DPT0067-028.0	02/01/10	98	119	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0067-038.0	02/01/10	97	121	102	110	Pass	Pass	Pass	Pass
CRHE-DPT0067-038.0 1:10	02/01/10	94	117	106	111	Pass	Pass	Pass	Pass
CRHE-DPT0067-043.0	02/01/10	98	126	101	111	Pass	Pass	Pass	Pass
CRHE-DPT0067-048.0	02/01/10	96	124	103	112	Pass	Pass	Pass	Pass
CRHE-DPT0067-058.0	02/01/10	98	126	103	110	Pass	Pass	Pass	Pass
CRHE-DPT0066-038.0 1:10	02/01/10	98	121	104	111	Pass	Pass	Pass	Pass
CRHE-DPT0066-028.0 1:5	02/01/10	97	125	103	111	Pass	Pass	Pass	Pass
CRHE-DPT0065-063.0 MS	02/01/10	96	133	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0065-063.0 MSD	02/01/10	96	126	103	101	Pass	Pass	Pass	Pass
VSTD 20	02/01/10	97	131	102	102	Pass	Pass	Pass	Pass
CCS 20	02/02/10	99	118	100	104	Pass	Pass	Pass	Pass
CCS 20	02/02/10	100	121	100	102	Pass	Pass	Pass	Pass
LCS 20	02/02/10	97	112	99	103	Pass	Pass	Pass	Pass
BLANK	02/02/10	100	117	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0067-043.0 1:5	02/02/10	100	118	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0068-028.0	02/02/10	100	118	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0068-038.0	02/02/10	99	116	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0068-043.0	02/02/10	100	117	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0068-048.0	02/02/10	100	117	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0068-058.0	02/02/10	102	119	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0069-010.0 1:20	02/02/10	100	122	101	109	Pass	Pass	Pass	Pass
CRHE-DPT0069-018.0	02/02/10	100	120	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0069-028.0	02/02/10	100	121	101	109	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0068-028.0 MS	02/02/10	95	121	103	103	Pass	Pass	Pass	Pass
CRHE-DPT0068-028.0 MSD	02/02/10	97	118	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0069-038.0	02/02/10	93	105	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0069-043.0	02/02/10	102	118	101	109	Pass	Pass	Pass	Pass
CRHE-DPT0069-048.0	02/02/10	100	118	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0069-058.0	02/02/10	93	109	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0070-028.0	02/02/10	99	118	101	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-038.0	02/02/10	100	116	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-043.0 1:10	02/02/10	101	121	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-048.0	02/02/10	98	114	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0	02/02/10	100	119	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-028.0	02/02/10	99	115	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0070-038.0	02/02/10	98	115	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-043.0	02/02/10	98	116	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0070-048.0	02/02/10	100	117	103	106	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0	02/02/10	98	114	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0069-010.0	02/02/10	98	119	101	106	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0 MS	02/02/10	98	127	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0070-058.0 MSD	02/02/10	100	108	100	104	Pass	Pass	Pass	Pass
VSTD 20	02/02/10	100	118	101	102	Pass	Pass	Pass	Pass
CCS 20	02/03/10	102	111	98	103	Pass	Pass	Pass	Pass
LCS 20	02/03/10	100	105	98	104	Pass	Pass	Pass	Pass
BLANK	02/03/10	106	117	97	105	Pass	Pass	Pass	Pass
CRHE-DPT0072-028.0	02/03/10	98	104	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0072-038.0 1:1000	02/03/10	101	111	99	108	Pass	Pass	Pass	Pass
CRHE-DPT0072-043.0 1:20	02/03/10	100	112	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0072-048.0	02/03/10	101	113	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0072-058.0 1:5	02/03/10	99	110	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0072-063.0	02/03/10	102	112	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0073-028.0	02/03/10	102	114	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0073-038.0	02/03/10	101	113	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0073-043.0	02/03/10	102	113	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0073-048.0	02/03/10	101	112	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0073-058.0	02/03/10	102	113	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0072-038.0 1:5000	02/03/10	103	117	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0074-028.0	02/03/10	92	101	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0074-038.0 1:500	02/03/10	99	110	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0074-043.0 1:100	02/03/10	102	109	99	104	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 09-275
On-site Dates: 1/25/10-2/3/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0074-048.0	02/03/10	103	116	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0074-058.0	02/03/10	101	108	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0074-063.0	02/03/10	100	110	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0074-010.0	02/03/10	100	104	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0074-018.0	02/03/10	98	107	104	107	Pass	Pass	Pass	Pass
CRHE-DPT0073-010.0	02/03/10	101	108	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0073-018.0	02/03/10	102	111	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0072-010.0	02/03/10	100	114	102	102	Pass	Pass	Pass	Pass
CRHE-DPT0072-018.0	02/03/10	100	108	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0073-048.0 MS	02/03/10	100	112	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0073-048.0 MSD	02/03/10	100	109	98	99	Pass	Pass	Pass	Pass
VSTD 20	02/03/10	97	104	98	102	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0045-018.0 **Date of Analysis:** 1/25/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	114	102	12	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	85	100	16	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	80	118	39	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	59	156	20	97	100	3	Pass	Pass	Pass
Trichloroethene	70	136	20	108	108	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	117	119	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0046-058.0 **Date of Analysis:** 1/25/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	41	72	54	Pass	Pass	> RPDL
1,1-Dichloroethene	45	144	20	105	206	65	Pass	> UCL	> RPDL
Trans-1,2-Dichloroethene	68	130	20	111	212	63	Pass	> UCL	> RPDL
Cis-1,2-Dichloroethene	59	156	20	108	99	9	Pass	Pass	Pass
Trichloroethene	70	136	20	109	109	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	125	123	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0049-058.0 **Date of Analysis:** 1/26/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	25	26	5	< LCL	< LCL	Pass
1,1-Dichloroethene	45	144	20	99	105	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	105	113	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	111	117	6	Pass	Pass	Pass
Trichloroethene	70	136	20	111	113	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	116	125	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0051-048.0 **Date of Analysis:** 1/27/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	28	76	93	< LCL	Pass	> RPDL
1,1-Dichloroethene	45	144	20	115	217	61	Pass	> UCL	> RPDL
Trans-1,2-Dichloroethene	68	130	20	116	227	65	Pass	> UCL	> RPDL
Cis-1,2-Dichloroethene	59	156	20	114	129	13	Pass	Pass	Pass
Trichloroethene	70	136	20	106	114	7	Pass	Pass	Pass
Tetrachloroethene	57	152	20	129	125	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0054-058.0 **Date of Analysis:** 1/27/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	23	27	16	< LCL	< LCL	Pass
1,1-Dichloroethene	45	144	20	92	97	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	96	98	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	99	100	1	Pass	Pass	Pass
Trichloroethene	70	136	20	97	99	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	105	104	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0057-058.0 **Date of Analysis:** 1/28/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	99	105	6	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	95	105	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	103	110	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	103	108	4	Pass	Pass	Pass
Trichloroethene	70	136	20	102	106	4	Pass	Pass	Pass
Tetrachloroethene	57	152	20	99	100	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0058-058.0 **Date of Analysis:** 1/28/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	95	104	9	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	142	127	11	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	148	139	7	> UCL	> UCL	Pass
Cis-1,2-Dichloroethene	59	156	20	107	104	2	Pass	Pass	Pass
Trichloroethene	70	136	20	104	101	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	89	87	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0061-028.0 **Date of Analysis:** 1/29/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	80	101	23	Pass	Pass	> RPDL
1,1-Dichloroethene	45	144	20	114	115	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	118	120	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	88	97	10	Pass	Pass	Pass
Trichloroethene	70	136	20	85	95	11	Pass	Pass	Pass
Tetrachloroethene	57	152	20	78	85	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0064-028.0 **Date of Analysis:** 2/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	98	117	18	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	125	128	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	127	129	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	101	111	9	Pass	Pass	Pass
Trichloroethene	70	136	20	97	106	9	Pass	Pass	Pass
Tetrachloroethene	57	152	20	91	95	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0065-063.0 **Date of Analysis:** 2/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	84	97	14	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	115	117	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	122	121	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	103	104	1	Pass	Pass	Pass
Trichloroethene	70	136	20	101	104	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	88	95	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0068-028.0 **Date of Analysis:** 2/2/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	86	88	2	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	115	109	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	115	112	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	107	109	1	Pass	Pass	Pass
Trichloroethene	70	136	20	104	105	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	96	98	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0070-058.0 **Date of Analysis:** 2/2/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	85	91	7	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	109	106	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	115	111	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	109	109	0	Pass	Pass	Pass
Trichloroethene	70	136	20	107	105	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	97	97	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0073-048.0 **Date of Analysis:** 2/3/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	86	88	2	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	99	93	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	107	101	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	109	107	2	Pass	Pass	Pass
Trichloroethene	70	136	20	108	106	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	102	101	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 1/25/2010
LCS 2 — 1/26/2010
LCS 3 — 1/26/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	28	to	161	107	69	37	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	87	184	126	Pass	> UCL	Pass
Trans-1,2-Dichloroethene	61	to	133	80	177	130	Pass	> UCL	Pass
Cis-1,2-Dichloroethene	60	to	150	93	97	127	Pass	Pass	Pass
Trichloroethene	47	to	164	105	110	69	Pass	Pass	Pass
Tetrachloroethene	60	to	151	114	105	119	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 1/26/2010
LCS 5 — 1/27/2010
LCS 6 — 1/28/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	28	to	161	27	29	26	< LCL	Pass	< LCL
1,1-Dichloroethene	43	to	156	94	104	75	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	99	111	102	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	105	110	104	Pass	Pass	Pass
Trichloroethene	47	to	164	109	108	106	Pass	Pass	Pass
Tetrachloroethene	60	to	151	112	125	117	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 1/28/2010
LCS 8 — 1/29/2010
LCS 9 — 2/1/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	28	to	161	98	100	105	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	124	128	127	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	124	131	129	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	104	106	106	Pass	Pass	Pass
Trichloroethene	47	to	164	102	102	101	Pass	Pass	Pass
Tetrachloroethene	60	to	151	94	94	93	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 09-275
Onsite Dates: 1/25/10-2/3/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples:	LCS 10 LCS 11			**Date of Analysis:**	2/2/2010 2/3/2010			
Spike Compounds	**Control Limits**			**Percent Recoveries**			**Control Limit Checks**	
	Lower		**Upper**	**LCS#10**	**LCS#11**		**LCS#10**	**LCS#11**
Vinyl Chloride	28	to	161	92	90		Pass	Pass
1,1-Dichloroethene	43	to	156	109	97		Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	113	100		Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	108	108		Pass	Pass
Trichloroethene	47	to	164	105	105		Pass	Pass
Tetrachloroethene	60	to	151	97	102		Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0045-018.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0045-028.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	**2.0**	<1.0	<1.0	NA
CRHE-DPT0045-038.0-20100125	1/25/10	Water	1	**5.0**	<1.0	**1.6**	**13.6**	<1.0	<1.0	NA
CRHE-DPT0045-044.0-20100125	1/25/10	Water	1	**5.5**	<1.0	**1.6**	**19.0**	<1.0	**5.1**	NA
CRHE-DPT0045-048.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0045-058.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-018.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-028.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-038.0-20100125	1/25/10	Water	1	**10.0**	<1.0	**1.8**	**6.7**	<1.0	<1.0	NA
CRHE-DPT0046-043.0-20100125	1/25/10	Water	1	**4.4**	<1.0	**3.4**	**9.5**	<1.0	<1.0	NA
CRHE-DPT0046-048.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-058.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0046-010.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0045-010.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-010.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-018.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-028.0-20100125	1/25/10	Water	1	**12.2**	<1.0	<1.0	**4.0**	<1.0	<1.0	NA
CRHE-DPT0047-038.0-20100125	1/25/10	Water	1	**28.1**	<1.0	**5.1**	**21.2**	<1.0	<1.0	NA
CRHE-DPT0047-043.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	**1.8**	<1.0	<1.0	NA
CRHE-DPT0047-048.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0047-058.0-20100125	1/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-010.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-018.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-028.0-20100126	1/26/10	Water	1	<1.0	<1.0	**4.9**	**3.5**	<1.0	<1.0	NA
CRHE-DPT0048-038.0-20100126	1/26/10	Water	1	**2.4**	**14.4**	<1.0	**2.6**	<1.0	<1.0	**120 J**
CRHE-DPT0048-043.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0048-048.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0048-058.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0049-028.0-20100126	1/26/10	Water	1	**3.8**	<1.0	**17.9**	**1.9**	<1.0	<1.0	NA
CRHE-DPT0049-038.0-20100126	1/26/10	Water	1	**3.4**	<1.0	<1.0	**3.1**	<1.0	<1.0	NA
CRHE-DPT0049-043.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	NA
CRHE-DPT0049-048.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0049-058.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-010.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-018.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-028.0-20100126	1/26/10	Water	1	**62.1**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0050-038.0-20100126	1/26/10	Water	1,10	**1100 L**	<1.0	**39.1**	**6.5**	<1.0	<1.0	NA
CRHE-DPT0050-043.0-20100126	1/26/10	Water	1	**3.3**	<1.0	<1.0	**1.2**	<1.0	<1.0	NA
CRHE-DPT0050-048.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0050-058.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-028.0-20100126	1/26/10	Water	1	**7.8**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-038.0-20100126	1/26/10	Water	1	**20.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-043.0-20100126	1/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0051-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-028.0-20100127	1/27/10	Water	1	**130 L**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-038.0-20100127	1/28/10	Water	1	**100**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-043.0-20100127	1/28/10	Water	1	**40.5**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0052-063.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-028.0-20100127	1/27/10	Water	1	**90.9**	<1.0	<1.0	**2.3**	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0053-038.0-20100127	1/27/10	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-043.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0053-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-028.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-038.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-043.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-048.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0054-063.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-028.0-20100127	1/28/10	Water	1	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-038.0-20100127	1/28/10	Water	1	**150 L**	<1.0	<1.0	**1.0**	<1.0	<1.0	NA
CRHE-DPT0055-043.0-20100127	1/28/10	Water	1	**38.5**	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0055-048.0-20100127	1/28/10	Water	1	**12.7**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-058.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0055-063.0-20100127	1/27/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-010.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-018.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	NA
CRHE-DPT0056-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-038.0-20100128	1/29/10	Water	1	**7.3**	<1.0	<1.0	**7.6**	<1.0	<1.0	**22 J**
CRHE-DPT0056-043.0-20100128	1/29/10	Water	1	**25.1**	<1.0	**2.1**	**8.4**	<1.0	<1.0	**79 J**
CRHE-DPT0056-048.0-20100128	1/28/10	Water	1	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0056-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0057-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0057-038.0-20100128	1/28/10	Water	1, 10	**280**	<1.0	<1.0	**1.5**	<1.0	<1.0	NA
CRHE-DPT0057-043.0-20100128	1/29/10	Water	1	**71.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0057-048.0-20100128	1/29/10	Water	1	**15.7**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0057-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-038.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-043.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-048.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0058-063.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-038.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-043.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-048.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0059-058.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0060-028.0-20100128	1/28/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0060-038.0-20100128	1/28/10	Water	1, 10	**22.3**	<1.0	**3.8**	**140**	<1.0	<1.0	NA
CRHE-DPT0060-043.0-20100129	1/29/10	Water	5	**130**	<5.0	**12**	**120**	<5.0	<5.0	**72 J**
CRHE-DPT0061-028.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0061-038.0-20100129	1/29/10	Water	1	**7.9**	<1.0	<1.0	**57.3**	<1.0	<1.0	NA
CRHE-DPT0061-043.0-20100129	1/29/10	Water	1	**4.4**	<1.0	<1.0	**3.4**	<1.0	<1.0	NA
CRHE-DPT0061-048.0-20100129	1/29/10	Water	1	**7.3**	<1.0	<1.0	**1.3**	<1.0	<1.0	**18 J**
CRHE-DPT0061-058.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0061-063.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0062-010.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0062-018.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0062-028.0-20100129	1/29/10	Water	1	**7.6**	<1.0	<1.0	**2.8**	<1.0	<1.0	NA
CRHE-DPT0062-038.0-20100129	1/29/10	Water	1	**3.8**	<1.0	**4.8**	**45.1**	<1.0	<1.0	NA

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Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0062-043.0-20100129	1/29/10	Water	1	**13.8**	<1.0	**4.9**	**50.5**	<1.0	<1.0	**27 J**
CRHE-DPT0062-048.0-20100129	1/29/10	Water	1	**3.3**	<1.0	<1.0	**3.7**	<1.0	<1.0	NA
CRHE-DPT0062-058.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-028.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-038.0-20100129	1/29/10	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-043.0-20100129	1/29/10	Water	1	**12.7**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0063-048.0-20100129	1/29/10	Water	1	**5.7**	<1.0	<1.0	**1.9**	<1.0	<1.0	NA
CRHE-DPT0063-058.0-20100129	1/29/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0064-028.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0064-038.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	NA
CRHE-DPT0064-043.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	**2.9**	<1.0	<1.0	NA
CRHE-DPT0064-048.0-20100201	2/1/10	Water	1	**1.4**	<1.0	<1.0	**4.6**	<1.0	<1.0	NA
CRHE-DPT0064-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0064-063.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0065-028.0-20100201	2/1/10	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0065-038.0-20100201	2/1/10	Water	1	**55.7**	<1.0	<1.0	**110**	<1.0	<1.0	NA
CRHE-DPT0065-043.0-20100201	2/1/10	Water	1	**36.9**	<1.0	<1.0	**86.6**	<1.0	<1.0	NA
CRHE-DPT0065-048.0-20100201	2/1/10	Water	1	**34.5**	<1.0	**1.2**	**32.1**	<1.0	<1.0	**27 J**
CRHE-DPT0065-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0065-063.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-028.0-20100201	2/1/10	Water	1, 5	**120**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-038.0-20100201	2/1/10	Water	1, 10	**220**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-043.0-20100201	2/1/10	Water	1	**110**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-048.0-20100201	2/1/10	Water	1	**10.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0066-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-010.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0067-018.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-028.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-038.0-20100201	2/1/10	Water	1, 10	**420**	<1.0	**9.3**	**3.3**	<1.0	<1.0	NA
CRHE-DPT0067-043.0-20100201	2/1/10	Water	1, 5	**200**	<1.0	**9.0**	**10.5**	<1.0	<1.0	NA
CRHE-DPT0067-048.0-20100201	2/1/10	Water	1	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0067-058.0-20100201	2/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0068-028.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	**2.6**	<1.0	<1.0	NA
CRHE-DPT0068-038.0-20100202	2/2/10	Water	1	**6.1**	<1.0	<1.0	**4.4**	<1.0	<1.0	NA
CRHE-DPT0068-043.0-20100202	2/2/10	Water	1	**13.3**	<1.0	<1.0	**2.3**	<1.0	<1.0	NA
CRHE-DPT0068-048.0-20100202	2/2/10	Water	1	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0068-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0069-010.0-20100202	2/2/10	Water	1	<1.0	**2.8**	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0069-018.0-20100202	2/2/10	Water	1	**3.8**	<1.0	<1.0	<1.0	<1.0	<1.0	NA

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0069-028.0-20100202	2/2/10	Water	1	**3.4**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0069-038.0-20100202	2/2/10	Water	1	**82.2**	<1.0	<1.0	**7.5**	<1.0	<1.0	NA
CRHE-DPT0069-043.0-20100202	2/2/10	Water	1	**110 L**	<1.0	<1.0	**14.8**	<1.0	<1.0	NA
CRHE-DPT0069-048.0-20100202	2/2/10	Water	1	**31.6**	<1.0	<1.0	**3.8**	<1.0	<1.0	NA
CRHE-DPT0069-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0070-028.0-20100202	2/2/10	Water	1	<1.0	**2.9**	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0070-038.0-20100202	2/2/10	Water	1	**5.4**	**15.6**	<1.0	<1.0	<1.0	<1.0	**25 J**
CRHE-DPT0070-043.0-20100202	2/2/10	Water	10	**37**	**26**	<10	<10	<10	<10	**210 J**
CRHE-DPT0070-048.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0070-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0071-028.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0071-038.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	**3.1**	**1.4**	<1.0	NA
CRHE-DPT0071-043.0-20100202	2/2/10	Water	1	**14.6**	<1.0	<1.0	**2.7**	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0071-048.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0071-058.0-20100202	2/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-028.0-20100203	2/3/10	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-038.0-20100203	2/3/10	Water	1000, 5000	**4600**	<1000	<1000	**48000**	**160000**	<1000	NA
CRHE-DPT0072-043.0-20100203	2/3/10	Water	20	**54**	<20	<20	**570**	**1300**	<20	NA
CRHE-DPT0072-048.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**4.7**	**24.0**	<1.0	NA
CRHE-DPT0072-058.0-20100203	2/3/10	Water	5	**4 J**	<5.0	<5.0	**100**	**210**	<5.0	NA
CRHE-DPT0072-063.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**15.8**	**43.8**	<1.0	NA
CRHE-DPT0073-028.0-20100203	2/3/10	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-038.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	**1.6**	<1.0	NA
CRHE-DPT0073-043.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-048.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-058.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

KB LABS, INC.

Final Data Report

Project Number : 09-275

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene	1,1-Dichloroethane
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**	
CRHE-DPT0074-028.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0074-038.0-20100203	2/3/10	Water	500	**7200**	<500	<500	**18000**	**8100**	<500	NA
CRHE-DPT0074-043.0-20100203	2/3/10	Water	100	**1300**	<100	<100	**4000**	**2900**	<100	NA
CRHE-DPT0074-048.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**3.6**	**4.2**	<1.0	NA
CRHE-DPT0074-058.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**2.9**	**2.5**	<1.0	NA
CRHE-DPT0074-063.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	**2.0**	**1.7**	<1.0	NA
CRHE-DPT0074-010.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0074-018.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-010.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0073-018.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-010.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
CRHE-DPT0072-018.0-20100203	2/3/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KS3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KS3+0125?0	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0045-018.0	1/25/10	0900			1/25/10	0928		GW	2	✓	
028.0		0910				0928					
038.0		0921				0953					
048.0		0940				0953					
048.0		0957				1033					
058.0		1010				1030					
DPT0046-018.0		1150				1209					
028.0		1115				1200					
038.0		1120				1240					
048.0		1135				1240					
048.0		1250				1320					
058.0		1310				1320					
010.0		1340				1405					
DPT0045-010.0		1400				1405					
DPT0047-010.0		1415				1434					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 1/25/10	**Remarks and Observations** client requested change of all sample IDs to '0' in the second digit of DPT, ie DPT0445 instead of DPT0045 SH
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC FL

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3+012510											
DPT047-018.0	1/25/10	1425			1/25/10	1434		GW	2	✓	
025.0		1440				1455					
038.0		1450				1455					
043.0		1525				1536					
DPT0447-048.0		1540				1605					
058.0		1650				1605					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 1/25/10	**Remarks and Observations** all DPT047s should be changed to DPT0447 by client
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1CB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHME xNASA KSCFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 #0126 10											
DPT0448 – 010.0	1/26/10	0800			1/26/10	0830		GW	2	✓	
018.0		0810				0830					
028.0		0825				0900					
038.0		0845				0900					
043.0		0900				0934					
048.0		0915				0934					
058.0		0940				1018					
DPT0449-028.0		1005				1018					
038.0		1015				1040					
043.0		1045				1108					
048.0		1100				1108					
058.0		1115				1130					
DPT0450 – 010.0		1140				1240					
018.0		1225				1240					
028.0		1235				1305					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 1/26/10
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 + 01/26/10											
DPT0450 - 038.0	1/26/10	1300			1/26/10	1305		GW	2	✓	
043.0		1315				1355					
048.0		1330				↓					
058.0		1345									
DPT0451 - 028.0		1430				1500					
038.0		1445				1500					
043.0	↓	1455			↓	1515		↓	↓	↓	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
			1/26/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec | PROJECT NAME & ADDRESS: CTRE NASA KSC, FL

SAMPLERS | CONTACT PERSON | BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3X012710											
DPT0451-048.0	1/27/10	0755			1/27/10	0830		GW	2	✓	
" -058.0		0815				0830					
DPT0452-028.0		0850				0910					
038.0		0900				0910					
043.0		0920				0940					
048.0		0935				0940					
058.0		0955				1020					
063.0		1010				1020					
DPT0453-028.0		1045				1108					
038.0		1100				1108					
048.0		1120				1140					
048.0		1135				1140					
058.0		1225				1235					
DPT0454-028.0		1305				1325					
" 038.0		1320				1325					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/27/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3*012710	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT054-043.0	1/27/10	1335			1/27/10	1400		GW	2	✓	
048.0		1355				1400					
053.0		1410				1440					
063.0		1430				1440					
DPT055-028.0	/	1515				1535					
038.0		1530				1535					
043.0		1545				1615					
048.0		1600				1615					
053.0		1620				1655					
063.0		1645				1655					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/27/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3*012810											
DPT0457-010.0	1/28/10	0800			1/28/10	0815		GW	2	✓	
018.0		0810				0815					
028.0		0825				0840					
038.0		0835				0840					
043.0		0850				0915					
048.0		0910				0915					
058.0		0945				0953					
DPT0457-028.0		1010				1034					
038.0		1025				1034					
043.0		1045				1110					
048.0		1100				1110					
058.0		1120				1130					
DPT0458-028.0		1225				1245					
-038.0		1240				1245					
-043.0		1255				1320					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/28/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 163

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRS MASA ICSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KG3 * 01/28/10											
DPT 0458 – 048.0	1/28/10	1310			1/28/10	1320		GW	6	✓	
053.0		1330				1400					
063.0		1350				1400					
DPT 0459 – 028.0		1435				1455					
038.0		1450				1455					
043.0		1505				1550					
048.0		1520				↓					
058.0		1540				↓					
DPT 0460 028.0		1615				1650					
11 038.0	↓	1640			↓	1650		↓	↓	↓	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/28/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K93

CLIENT NAME: Geosytec

PROJECT NAME & ADDRESS: CTRE NASA KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
K93+0129 10											
DPT046C-043.0	4/29/10	0730			4/29/10	0745		GW	1		
DPT0461-028.0		0815				0830					
038.0		0825				0830					
043.0		0845				0915					
048.0		0900				0915					
058.0		0930				0940					
063.0		0950				1000					
DPT046L-010.0		1020				1035					
018.0		1030				1035					
028.0		1040				1055					
038.0		1050				1055					
043.0		1120				1130					
048.0		1145				1206					
058.0		1200				1206					
DPT0463-028.0		1305				1330					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)			4/29/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K83

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
K83* 012910											
DPT0463-038.0	1/29/10	1320			1/29/10	1330		GW	2	✓	
-043.0	↓	1340			↓	1343		↓	↓	↓	
-048.0		1358				1358					
058.0		1415				1416					

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	1/29/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec | PROJECT NAME & ADDRESS: CHRE NASA KSC, FL

SAMPLERS | CONTACT PERSON | BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3-020/10											
DPT0464-038.0	3/1/10	0810			4/1/10	0815		GW	2		
038.0		0826				0830					
043.0		0844				0849					
048.0		0902				0906					
058.0		0922				0945					
063.0		0938				0945					
DPT0065-028.0		1023				1043					
038.0		1038				1043					
043.0		1051				1112					
048.0		1109				1112					
058.0		1147				1154					
063.0		1143				1154					
DPT0066-028.0		1315				1325					switch sample ID # 38.0 / 28.0
038.0		1300				1325					
043.0		1332				1354					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/1/10	not DPT0464 changed to DPT0064 by client. RJF
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB-3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA ICSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3X020110											
DPT0066-048.0	2/1/10	1349			2/1/10	1354		GW	2	✓	
" 058.0		1407				1419					
DPT0067-018.0		1445				1450					
028.0		1513				1515					
038.0		1525				1529					
043.0		1537				1541					
048.0		1553				1557					
058.0	✓	1610			✓	1615		✓	✓	✓	
		1630				1635					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/1/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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FAX (352) 472-5832

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Cary, NC 27513
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MOBILE UNIT # KBS

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E MSA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KBS * 020210											
DPT0068 - 028.0	2/2/10	0800			2/2/10	0805		GW	2	✓	
038.0		0812				0816					
043.0		0828				0830					
048.0		0845				0852					
058.0		0900				0910					
DPT0069 - 010.0		0927				0930					
018.0		0951				0953					
028.0		1003				1004					
038.0		1240				1245					
043.0		1257				1300					
048.0		1313				1315					
058.0		1330				1335					
DPT0070 - 028.0		1412				1420					
038.0		1423				1426					
043.0		1437				1440					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/2/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2RE NAS JAX FSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3+0202/10	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0070-048.0	2/2/10	1457			2/2/10	1455		Gw	2	↓	
" 058.0	↓	1507			↓	1514		↓	↓	↓	
DPT0071-028.0		1535				1537					
038.0		1557				1600					
043.0		1611				1615					
048.0		1624				1628					
058.0		1640				1647					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			2/2/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT # 1483

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE NASA ISC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KB3*0203/0	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
PT0072 - 028.0	2/3/10	0747			2/3/10	0800		GW	2	✓	
038.0		0804				0810					
043.0		0819				0840					
048.0		0833				0840					
058.0		0850				0914					
063.0		0906				0914					
PT0073 - 028.0		0943				0944					
038.0		0959				1015					
043.0		1010				1015					
048.0		1025				1048					
058.0		1041				1045					
PT0074 - 028.0		1115				1225					
038.0		1125				1225					
043.0		1226				1247					
048.0		1242				1247					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
			2/3/10

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E xNASA KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 X020310											
DPT074 – 058.0	2/3/10	1259			2/3/10	1305		GW	2	✓	
" 068.0	↓	1315			↓	1315		↓	↓	↓	
DPT074 – 078.0		1341				1347					
" 088.0		1350				1354					
DPT073 – 100		1411				1420					
" 018.0		1417				1420					
DPT072 – 010.0		1433				1500					
" 018.0	↓	1445			↓	1509		↓	↓	↓	

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			2/3/10
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

March 3, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-37

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from February 22 to March 2, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From February 22 to March 2, 2010, a total of 150 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHE-DPT0089-043.0 reported trichloroethene 5200 changed to 520ug/L.

3. As per client request, all diluted samples with values between the EL and MDL are reported and identified with FDEP Data Qualifier "I".

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	02/22/10	90	82	99	88	Pass	Pass	Pass	Pass
RSTD 20	02/22/10	84	89	94	89	Pass	Pass	Pass	Pass
BLANK	02/22/10	94	97	93	84	Pass	Pass	Pass	Pass
BLANK	02/22/10	95	94	95	91	Pass	Pass	Pass	Pass
RSTD 20	02/22/10	98	83	96	90	Pass	Pass	Pass	Pass
BLANK	02/22/10	90	92	100	87	Pass	Pass	Pass	Pass
CRHE-DPT0075-018.0	02/22/10	104	94	93	87	Pass	Pass	Pass	Pass
CRHE-DPT0075-028.0	02/22/10	95	91	96	90	Pass	Pass	Pass	Pass
CRHE-DPT0075-038.0	02/22/10	95	90	97	90	Pass	Pass	Pass	Pass
CRHE-DPT0075-043.0	02/22/10	94	90	95	88	Pass	Pass	Pass	Pass
CRHE-DPT0075-048.0	02/22/10	96	91	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0075-058.0	02/22/10	96	88	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0075-018.0 MS	02/22/10	94	81	97	90	Pass	Pass	Pass	Pass
CRHE-DPT0075-018.0 MSD	02/22/10	91	79	97	89	Pass	Pass	Pass	Pass
CRHE-DPT0076-018.0	02/22/10	98	88	95	84	Pass	Pass	Pass	Pass
CRHE-DPT0076-028.0	02/22/10	94	94	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0076-038.0	02/22/10	109	94	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0076-043.0	02/22/10	101	95	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0076-048.0	02/22/10	100	97	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0076-058.0	02/22/10	101	95	94	81	Pass	Pass	Pass	Pass
CRHE-DPT0077-018.0	02/22/10	96	93	93	86	Pass	Pass	Pass	Pass
CRHE-DPT0077-028.0	02/22/10	98	94	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0077-038.0	02/22/10	98	94	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0077-043.0	02/22/10	99	97	94	87	Pass	Pass	Pass	Pass
CRHE-DPT0077-048.0	02/22/10	103	95	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0077-058.0	02/22/10	101	96	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0078-018.0	02/22/10	100	92	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0078-028.0	02/22/10	101	91	98	87	Pass	Pass	Pass	Pass
VSTD 20	02/22/10	93	83	95	87	Pass	Pass	Pass	Pass
VSTD 20	02/23/10	92	79	95	85	Pass	Pass	Pass	Pass
RSTD 20	02/23/10	88	84	96	87	Pass	Pass	Pass	Pass
BLANK	02/23/10	106	97	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0077-058.0 MS	02/23/10	94	82	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0077-058.0 MSD	02/23/10	90	80	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0078-038.0	02/23/10	97	84	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0078-043.0	02/23/10	98	87	92	87	Pass	Pass	Pass	Pass
CRHE-DPT0078-048.0	02/23/10	98	87	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0078-058.0	02/23/10	96	79	95	83	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0079-018.0	02/23/10	99	83	93	81	Pass	Pass	Pass	Pass
CRHE-DPT0078-058.0 MS	02/23/10	89	79	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0078-058.0 MSD	02/23/10	92	78	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0079-028.0	02/23/10	110	98	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0079-038.0	02/23/10	96	93	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0079-038.0 1:5	02/23/10	93	90	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0079-048.0	02/23/10	101	94	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0079-043.0	02/23/10	105	96	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0079-058.0	02/23/10	97	94	92	86	Pass	Pass	Pass	Pass
CRHE-DPT0080-018.0	02/23/10	100	91	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0080-028.0	02/23/10	102	92	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-038.0	02/23/10	97	88	91	86	Pass	Pass	Pass	Pass
CRHE-DPT0080-038.0 1:100	02/23/10	101	91	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-043.0	02/23/10	84	89	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-043.0 1:100	02/23/10	103	92	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0080-048.0	02/23/10	101	90	91	86	Pass	Pass	Pass	Pass
CRHE-DPT0080-058.0	02/23/10	104	92	92	82	Pass	Pass	Pass	Pass
CRHE-DPT0081-028.0	02/23/10	101	89	93	82	Pass	Pass	Pass	Pass
CRHE-DPT0081-038.0	02/23/10	98	86	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0081-043.0	02/23/10	99	83	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0081-048.0	02/23/10	104	90	92	81	Pass	Pass	Pass	Pass
CRHE-DPT0081-058.0	02/23/10	104	90	91	82	Pass	Pass	Pass	Pass
VSTD 20	02/23/10	93	78	92	85	Pass	Pass	Pass	Pass
VSTD 20	02/24/10	88	75	96	84	Pass	Pass	Pass	Pass
RSTD 20	02/24/10	93	79	96	83	Pass	Pass	Pass	Pass
BLANK	02/24/10	99	84	98	83	Pass	Pass	Pass	Pass
CRHE-DPT0082-010.0	02/24/10	98	86	92	83	Pass	Pass	Pass	Pass
CRHE-DPT0082-018.0	02/24/10	102	82	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0082-028.0	02/24/10	98	84	92	87	Pass	Pass	Pass	Pass
CRHE-DPT0082-033.0	02/24/10	103	85	92	81	Pass	Pass	Pass	Pass
CRHE-DPT0082-038.0	02/24/10	102	85	92	82	Pass	Pass	Pass	Pass
CRHE-DPT0082-043.0	02/24/10	102	85	93	78	Pass	Pass	Pass	Pass
CRHE-DPT0082-048.0	02/24/10	104	87	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0082-010.0 MS	02/24/10	94	75	94	85	Pass	Pass	Pass	Pass
CRHE-DPT0082-010.0 MSD	02/24/10	93	76	96	83	Pass	Pass	Pass	Pass
CRHE-DPT0083-010.0	02/24/10	100	86	94	80	Pass	Pass	Pass	Pass
CRHE-DPT0083-018.0	02/24/10	98	86	92	80	Pass	Pass	Pass	Pass
CRHE-DPT0083-028.0	02/24/10	103	88	90	79	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0083-033.0	02/24/10	101	87	92	85	Pass	Pass	Pass	Pass
CRHE-DPT0083-038.0	02/24/10	98	88	94	81	Pass	Pass	Pass	Pass
CRHE-DPT0083-043.0	02/24/10	100	84	91	83	Pass	Pass	Pass	Pass
CRHE-DPT0083-048.0	02/24/10	100	86	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0084-010.0	02/24/10	101	88	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0084-018.0	02/24/10	98	84	87	76	Pass	Pass	Pass	Pass
CRHE-DPT0084-028.0	02/24/10	101	82	91	81	Pass	Pass	Pass	Pass
CRHE-DPT0084-033.0	02/24/10	98	83	89	79	Pass	Pass	Pass	Pass
CRHE-DPT0084-038.0	02/24/10	99	80	91	82	Pass	Pass	Pass	Pass
CRHE-DPT0084-043.0	02/24/10	97	80	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0084-048.0	02/24/10	103	83	90	78	Pass	Pass	Pass	Pass
CRHE-DPT0084-018.0 MS	02/24/10	93	77	90	83	Pass	Pass	Pass	Pass
CRHE-DPT0084-018.0 MSD	02/24/10	91	72	91	84	Pass	Pass	Pass	Pass
VSTD 20	02/24/10	95	79	93	90	Pass	Pass	Pass	Pass
VSTD 20	02/25/10	90	81	92	79	Pass	Pass	Pass	Pass
RSTD 20	02/25/10	93	80	91	83	Pass	Pass	Pass	Pass
BLANK	02/25/10	100	82	94	77	Pass	Pass	Pass	Pass
CRHE-DPT0085-018.0	02/25/10	93	78	88	77	Pass	Pass	Pass	Pass
CRHE-DPT0085-010.0	02/25/10	98	82	92	79	Pass	Pass	Pass	Pass
CRHE-DPT0085-028.0	02/25/10	107	88	92	75	Pass	Pass	Pass	Pass
CRHE-DPT0085-033.0	02/25/10	98	81	90	78	Pass	Pass	Pass	Pass
CRHE-DPT0085-038.0	02/25/10	100	81	91	77	Pass	Pass	Pass	Pass
CRHE-DPT0085-043.0	02/25/10	100	79	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0085-048.0	02/25/10	95	81	90	77	Pass	Pass	Pass	Pass
CRHE-DPT0086-010.0 1:100	02/25/10	103	84	89	80	Pass	Pass	Pass	Pass
CRHE-DPT0086-018.0 1:50	02/25/10	89	74	88	79	Pass	Pass	Pass	Pass
CRHE-DPT0085-010.0 MS	02/25/10	93	72	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0085-010.0 MSD	02/25/10	93	81	92	81	Pass	Pass	Pass	Pass
CRHE-DPT0086-028.0 1:5	02/25/10	98	82	94	78	Pass	Pass	Pass	Pass
CRHE-DPT0086-033.0 1:100	02/25/10	100	82	90	78	Pass	Pass	Pass	Pass
CRHE-DPT0086-038.0	02/25/10	104	88	88	76	Pass	Pass	Pass	Pass
CRHE-DPT0086-043.0	02/25/10	101	91	84	77	Pass	Pass	Pass	Pass
CRHE-DPT0086-048.0	02/25/10	108	92	55	75	Pass	Pass	< LCL	Pass
CRHE-DPT0086-033.0	02/25/10	101	90	87	77	Pass	Pass	Pass	Pass
CRHE-DPT0087-010.0	02/25/10	97	82	91	78	Pass	Pass	Pass	Pass
CRHE-DPT0087-018.0	02/25/10	98	83	89	76	Pass	Pass	Pass	Pass
CRHE-DPT0087-028.0	02/25/10	101	84	89	73	Pass	Pass	Pass	Pass
CRHE-DPT0087-033.0	02/25/10	102	83	87	79	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0087-038.0	02/25/10	98	78	91	80	Pass	Pass	Pass	Pass
CRHE-DPT0087-043.0	02/25/10	97	77	92	78	Pass	Pass	Pass	Pass
CRHE-DPT0087-048.0	02/25/10	101	80	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-010.0	02/25/10	100	79	88	77	Pass	Pass	Pass	Pass
VSTD 20	02/25/10	94	75	88	77	Pass	Pass	Pass	Pass
VSTD 20	02/26/10	94	82	90	77	Pass	Pass	Pass	Pass
RSTD 20	02/26/10	93	78	88	76	Pass	Pass	Pass	Pass
BLANK	02/26/10	101	84	90	77	Pass	Pass	Pass	Pass
CRHE-DPT0088-018.0	02/26/10	99	83	88	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-028.0	02/26/10	99	80	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-033.0	02/26/10	99	80	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0088-038.0 1:500	02/26/10	99	85	86	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-043.0 1:200	02/26/10	97	80	85	76	Pass	Pass	Pass	Pass
CRHE-DPT0088-048.0	02/26/10	99	80	89	78	Pass	Pass	Pass	Pass
CRHE-DPT0089-010.0	02/26/10	101	80	90	79	Pass	Pass	Pass	Pass
CRHE-DPT0089-018.0	02/26/10	100	82	89	76	Pass	Pass	Pass	Pass
CRHE-DPT0089-028.0	02/26/10	101	80	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0089-033.0	02/26/10	104	82	88	77	Pass	Pass	Pass	Pass
CRHE-DPT0089-038.0	02/26/10	99	81	86	76	Pass	Pass	Pass	Pass
CRHE-DPT0089-043.0 1:200	02/26/10	95	79	87	75	Pass	Pass	Pass	Pass
CRHE-DPT0089-048.0	02/26/10	101	84	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0090-010.0	02/26/10	100	81	86	76	Pass	Pass	Pass	Pass
CRHE-DPT0090-018.0	02/26/10	101	84	85	76	Pass	Pass	Pass	Pass
CRHE-DPT0090-028.0	02/26/10	102	87	86	75	Pass	Pass	Pass	Pass
CRHE-DPT0090-033.0	02/26/10	97	86	89	77	Pass	Pass	Pass	Pass
CRHE-DPT0090-038.0	02/26/10	98	82	89	75	Pass	Pass	Pass	Pass
CRHE-DPT0090-043.0	02/26/10	102	81	89	76	Pass	Pass	Pass	Pass
CRHE-DPT0090-048.0	02/26/10	100	82	92	75	Pass	Pass	Pass	Pass
CRHE-DPT0089-038.0 1:5	02/26/10	103	84	87	72	Pass	Pass	Pass	Pass
CRHE-DPT0086-014.0 1:100	02/26/10	98	81	90	73	Pass	Pass	Pass	Pass
CRHE-DPT0086-023.0 1:20	02/26/10	97	84	88	71	Pass	Pass	Pass	< LCL
VSTD 20	02/26/10	94	75	88	76	Pass	Pass	Pass	Pass
VSTD 20	03/01/10	91	76	92	75	Pass	Pass	Pass	Pass
RSTD 20	03/01/10	89	77	92	74	Pass	Pass	Pass	Pass
BLANK	03/01/10	95	81	92	75	Pass	Pass	Pass	Pass
CRHE-DPT0091-010.0	03/01/10	92	79	91	72	Pass	Pass	Pass	Pass
CRHE-DPT0091-018.0	03/01/10	95	78	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0091-028.0	03/01/10	96	82	90	74	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0091-033.0	03/01/10	95	81	92	73	Pass	Pass	Pass	Pass
CRHE-DPT0091-018.0 MS	03/01/10	92	79	91	77	Pass	Pass	Pass	Pass
CRHE-DPT0091-018.0 MSD	03/01/10	88	76	93	78	Pass	Pass	Pass	Pass
CRHE-DPT0091-038.0	03/01/10	94	77	94	72	Pass	Pass	Pass	Pass
CRHE-DPT0091-043.0	03/01/10	96	80	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0091-048.0	03/01/10	93	83	86	71	Pass	Pass	Pass	< LCL
CRHE-DPT0092-010.0	03/01/10	104	87	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-014.0 1:50	03/01/10	100	92	86	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-018.0 1:1000	03/01/10	97	87	90	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-028.0 1:5	03/01/10	92	79	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-033.0 1:200	03/01/10	102	90	90	76	Pass	Pass	Pass	Pass
CRHE-DPT0092-038.0 1:100	03/01/10	98	87	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0092-043.0	03/01/10	102	87	86	75	Pass	Pass	Pass	Pass
CRHE-DPT0092-048.0	03/01/10	97	86	88	71	Pass	Pass	Pass	< LCL
CRHE-DPT0093-010.0	03/01/10	100	88	88	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-014.0	03/01/10	98	84	88	73	Pass	Pass	Pass	Pass
CRHE-DPT0093-018.0	03/01/10	101	84	90	75	Pass	Pass	Pass	Pass
CRHE-DPT0093-028.0	03/01/10	101	88	85	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-033.0	03/01/10	102	83	89	77	Pass	Pass	Pass	Pass
CRHE-DPT0093-038.0	03/01/10	99	83	89	74	Pass	Pass	Pass	Pass
CRHE-DPT0093-043.0	03/01/10	105	86	90	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-048.0	03/01/10	101	86	88	76	Pass	Pass	Pass	Pass
CRHE-DPT0094-010.0	03/01/10	103	89	87	73	Pass	Pass	Pass	Pass
CRHE-DPT0094-018.0	03/01/10	102	92	86	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-028.0	03/01/10	102	92	86	72	Pass	Pass	Pass	Pass
CRHE-DPT0093-028.0 MS	03/01/10	99	85	85	73	Pass	Pass	Pass	Pass
CRHE-DPT0093-028.0 MSD	03/01/10	96	94	85	75	Pass	Pass	Pass	Pass
VSTD 20	03/01/10	96	97	80	69	Pass	Pass	Pass	< LCL
VSTD 20	03/02/10	95	86	82	76	Pass	Pass	Pass	Pass
RSTD 20	03/02/10	97	81	89	70	Pass	Pass	Pass	< LCL
BLANK	03/02/10	88	89	89	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-033.0	03/02/10	98	85	86	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-038.0	03/02/10	97	78	83	72	Pass	Pass	Pass	Pass
CRHE-DPT0094-043.0	03/02/10	99	83	87	70	Pass	Pass	Pass	< LCL
CRHE-DPT0094-048.0	03/02/10	99	79	86	69	Pass	Pass	Pass	< LCL
CRHE-DPT0095-010.0	03/02/10	98	78	87	72	Pass	Pass	Pass	Pass
CRHE-DPT0095-018.0	03/02/10	101	78	88	70	Pass	Pass	Pass	< LCL
CRHE-DPT0095-028.0	03/02/10	96	78	86	71	Pass	Pass	Pass	< LCL

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-37
On-site Dates: 2/22/10-3/2/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0095-033.0	03/02/10	102	86	87	71	Pass	Pass	Pass	< LCL
CRHE-DPT0095-038.0	03/02/10	102	85	85	71	Pass	Pass	Pass	< LCL
CRHE-DPT0095-043.0	03/02/10	95	84	87	70	Pass	Pass	Pass	< LCL
CRHE-DPT0095-048.0	03/02/10	100	84	86	70	Pass	Pass	Pass	< LCL
CRHE-DPT0096-010.0	03/02/10	100	84	88	70	Pass	Pass	Pass	< LCL
CRHE-DPT0096-018.0 1:5	03/02/10	99	84	85	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-028.0 1:2000	03/02/10	103	90	84	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-033.0 1:500	03/02/10	99	89	85	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-038.0	03/02/10	96	85	88	70	Pass	Pass	Pass	< LCL
CRHE-DPT0096-038.0 1:20	03/02/10	99	85	84	72	Pass	Pass	Pass	Pass
CRHE-DPT0096-043.0	03/02/10	101	86	86	71	Pass	Pass	Pass	< LCL
CRHE-DPT0096-048.0	03/02/10	103	84	86	70	Pass	Pass	Pass	< LCL
VSTD 20	03/02/10	93	74	86	75	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**

S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-37
Onsite Dates: 2/22/10-3/2/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0075-018.0 **Date of Analysis:** 2/22/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	105	100	4	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	81	79	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	83	83	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	80	3	Pass	Pass	Pass
Trichloroethene	70	136	20	85	89	4	Pass	Pass	Pass
Tetrachloroethene	57	152	20	94	95	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0077-058.0 **Date of Analysis:** 2/22/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	110	106	3	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	82	82	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	85	84	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	84	85	1	Pass	Pass	Pass
Trichloroethene	70	136	20	94	92	2	Pass	Pass	Pass
Tetrachloroethene	57	152	20	101	104	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0078-058.0 **Date of Analysis:** 2/23/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	104	104	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	78	78	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	79	82	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	77	78	2	Pass	Pass	Pass
Trichloroethene	70	136	20	86	89	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	93	97	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0082-010.0 **Date of Analysis:** 2/24/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	106	106	0	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	77	76	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	78	81	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	80	81	1	Pass	Pass	Pass
Trichloroethene	70	136	20	87	89	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	96	104	9	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-37
Onsite Dates: 2/22/10-3/2/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0084-018.0 **Date of Analysis:** 2/24/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	105	106	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	76	77	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	80	78	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	86	4	Pass	Pass	Pass
Trichloroethene	70	136	20	89	91	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	95	103	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0085-010.0 **Date of Analysis:** 2/25/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	106	107	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	78	79	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	80	81	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	80	3	Pass	Pass	Pass
Trichloroethene	70	136	20	91	95	5	Pass	Pass	Pass
Tetrachloroethene	57	152	20	94	104	10	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0091-018.0 **Date of Analysis:** 3/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	105	99	6	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	78	73	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	83	76	9	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	83	77	8	Pass	Pass	Pass
Trichloroethene	70	136	20	90	88	3	Pass	Pass	Pass
Tetrachloroethene	57	152	20	104	111	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0093-028.0 **Date of Analysis:** 3/1/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	99	93	6	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	70	69	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	72	70	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	77	73	6	Pass	Pass	Pass
Trichloroethene	70	136	20	86	82	5	Pass	Pass	Pass
Tetrachloroethene	57	152	20	101	96	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-37
Onsite Dates: 2/22/10-3/2/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 2/22/2010
LCS 2 2/23/2010
LCS 3 2/24/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	28	to	161	61	111	111	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	65	80	75	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	67	84	78	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	76	82	78	Pass	Pass	Pass
Trichloroethene	47	to	164	80	91	89	Pass	Pass	Pass
Tetrachloroethene	60	to	151	87	98	98	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:** 2/25/2010
LCS 5 2/26/2010
LCS 6 3/1/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	28	to	161	110	113	106	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	77	78	71	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	78	82	74	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	78	82	75	Pass	Pass	Pass
Trichloroethene	47	to	164	87	91	82	Pass	Pass	Pass
Tetrachloroethene	60	to	151	99	103	102	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 **Date of Analysis:** 3/2/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7			LCS#7		
Vinyl Chloride	28	to	161	99			Pass		
1,1-Dichloroethene	43	to	156	73			Pass		
Trans-1,2-Dichloroethene	61	to	133	76			Pass		
Cis-1,2-Dichloroethene	60	to	150	82			Pass		
Trichloroethene	47	to	164	89			Pass		
Tetrachloroethene	60	to	151	112			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0075-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-038.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-043.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-048.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0075-058.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-038.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-043.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-048.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0076-058.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0077-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-038.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-043.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-048.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0077-058.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-018.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-028.0-20100222	2/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-038.0-20100223	2/23/10	Water	1	**9.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-043.0-20100223	2/23/10	Water	1	**5.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-048.0-20100223	2/23/10	Water	1	**4.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0078-058.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-018.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-028.0-20100223	2/23/10	Water	1	**3.2**	<1.0	<1.0	**6.7**	<1.0	<1.0

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KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0079-038.0-20100223	2/23/10	Water	1, 5	**71.9**	<1.0	**1.2**	**140**	<1.0	<1.0
CRHE-DPT0079-043.0-20100223	2/23/10	Water	1	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-048.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0079-058.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-018.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-028.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-038.0-20100223	2/23/10	Water	1, 100	**1400**	<1.0	**5.4**	**9.0**	<1.0	<1.0
CRHE-DPT0080-043.0-20100223	2/23/10	Water	1,100	**2800**	<1.0	**15.2**	**21.6**	<1.0	<1.0
CRHE-DPT0080-048.0-20100223	2/23/10	Water	1	**75.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0080-058.0-20100223	2/23/10	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-028.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-038.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-043.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0081-048.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0081-058.0-20100223	2/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-010.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-018.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-028.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-033.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-038.0-20100224	2/24/10	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-043.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0082-048.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-010.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-018.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-028.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-033.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0083-038.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-043.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0083-048.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-010.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-018.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-028.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-033.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-038.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-043.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0084-048.0-20100224	2/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-010.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-018.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-028.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0085-033.0-20100225	2/25/10	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-038.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-043.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0085-048.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0086-010.0-20100225	2/25/10	Water	100	**560**	<100	<100	**1000**	<100	<100
CRHE-DPT0086-018.0-20100225	2/25/10	Water	50	**680**	<50	**56**	**5100**	<50	<50
CRHE-DPT0086-028.0-20100225	2/25/10	Water	5	**55**	<5	<5	**96**	<5	<5
CRHE-DPT0086-033.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0
CRHE-DPT0086-038.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0
CRHE-DPT0086-043.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0086-048.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-010.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-018.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0087-028.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-033.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-038.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-043.0-20100225	2/25/10	Water	1	**65.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0087-048.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-010.0-20100225	2/25/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-018.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-028.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-033.0-20100226	2/26/10	Water	1	**16.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0088-038.0-20100226	2/26/10	Water	500	**13000**	<500	<500	**14000**	**6000**	<500
CRHE-DPT0088-043.0-20100226	2/26/10	Water	200	**1500**	<200	<200	**4200**	**4800**	<200
CRHE-DPT0088-048.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	**1.3**	**1.3**	<1.0
CRHE-DPT0089-010.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0089-018.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0089-028.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0089-033.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0089-038.0-20100226	2/26/10	Water	1, 5	**180**	<1.0	<1.0	**7.8**	<1.0	<1.0
CRHE-DPT0089-043.0-20100226	2/26/10	Water	200	**4800**	<200	<200	**6200**	**520**	<200
CRHE-DPT0089-048.0-20100226	2/26/10	Water	1	**37.1**	<1.0	**1.2**	**15.7**	**1.1**	<1.0
CRHE-DPT0090-010.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-018.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-028.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-033.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-038.0-20100226	2/26/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0090-043.0-20100226	2/26/10	Water	1	**7.5**	<1.0	**2.2**	<1.0	<1.0	<1.0
CRHE-DPT0090-048.0-20100226	2/26/10	Water	1	**3.0**	<1.0	**1.4**	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0086-014.0-20100226	2/26/10	Water	100	**620**	<100	<100	**3300**	<100	<100
CRHE-DPT0086-023.0-20100226	2/26/10	Water	20	**480**	<20	<20	**770**	<20	<20
CRHE-DPT0091-010.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-018.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-028.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-033.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-038.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0091-043.0-20100301	3/1/10	Water	1	**100**	<1.0	**1.1**	<1.0	<1.0	<1.0
CRHE-DPT0091-048.0-20100301	3/1/10	Water	1	**11.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0092-010.0-20100301	3/1/10	Water	1	**4.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0092-014.0-20100301	3/1/10	Water	50	**1200**	<50	**74**	**2400**	<50	<50
CRHE-DPT0092-018.0-20100301	3/1/10	Water	1000	**2600**	<1000	**900 I**	**22000**	**3000**	<1000
CRHE-DPT0092-028.0-20100301	3/1/10	Water	5	**540**	<5	**18**	**130**	<5	<5

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-37

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0092-033.0-20100301	3/1/10	Water	200	**1000**	<200	<200	**5100**	**3800**	<200
CRHE-DPT0092-038.0-20100301	3/1/10	Water	100	**970**	<100	<100	**3600**	**4900**	<100
CRHE-DPT0092-043.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	**2.8**	**2.3**	<1.0
CRHE-DPT0092-048.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-010.0-20100301	3/1/10	Water	1	**2.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-014.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-018.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-028.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-033.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-038.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-043.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0093-048.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-010.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0094-018.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-028.0-20100301	3/1/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-033.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-038.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0094-043.0-20100302	3/2/10	Water	1	**33.2**	<1.0	**2.0**	**22.8**	**4.7**	<1.0
CRHE-DPT0094-048.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-010.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-018.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-028.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-033.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-038.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-043.0-20100302	3/2/10	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0095-048.0-20100302	3/2/10	Water	1	**13.3**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

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NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.27**	**0.27**	**0.33**	**0.39**	**0.56**	**0.36**
CRHE-DPT0096-010.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0096-018.0-20100302	3/2/10	Water	5	**510**	<5	**5.0**	**93.0**	<5	<5
CRHE-DPT0096-028.0-20100302	3/2/10	Water	2000	**7700**	<2000	<2000	**34000**	<2000	<2000
CRHE-DPT0096-033.0-20100302	3/2/10	Water	500	**12000**	<500	<500	**14000**	<500	<500
CRHE-DPT0096-038.0-20100302	3/2/10	Water	1, 20	**490**	<1.0	<1.0	**12.1**	<1.0	<1.0
CRHE-DPT0096-043.0-20100302	3/2/10	Water	1	**1.5**	<1.0	<1.0	**3.8**	<1.0	<1.0
CRHE-DPT0096-048.0-20100302	3/2/10	Water	1	<1.0	<1.0	<1.0	**1.6**	<1.0	<1.0

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1631

CLIENT NAME: Geosyntec | PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS | CONTACT PERSON | BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KB1*022210	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES
DPT0075-018.0	7/22/10	0843			7/23/10	0855		GW	2	✓
028.0		0855				0900				
038.0		0913				0920				
043.0		0930				0942				
048.0		0950				0957				
058.0		1010				1015				
DPT0076-018.0		1103				1108				
028.0		1116				1120				
038.0		1207				1300				
043.0		1227				↓				
048.0		1242				↓				
058.0		1300				1310				
DPT0077-018.0		1341				1420				
028.0		1355				↓				
038.0		1410				↓				

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

COMMENT / SAMPLE PRE FIX

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			7/23/10
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KJ1

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CTRE KSC, FL
SAMPLERS
CONTACT PERSON
BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KJ1+0222/0											
DT0027-043.0	2/24/10	1427			2/24/10	1455		GW	2	✓	
048.0	↓	1444			↓	1415		↓	↓	↓	
058.0	↓	1502			↓	1530		↓	↓	↓	
DT0028-018.0	2/24/10	1638			2/24/10	1710		GW	2	✓	
020.0	↓	1640			↓	1710		↓	↓	↓	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/24/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (352) 367-0073
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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # ICS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CTRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
ICS1*022310											
DPT0078 - 038.0	2/23/10	0828			2/23/10	0915		GW	2	✓	
043.0		0854				0915					
048.0		0917			1	1005					
058.0		0943				1005					
DPT0079 - 018.0		1040				1055					
028.0		1057				1235					
038.0		1121				↓					
048.0		1243				↓					
043.0		1323				1340					
038.0		1301				1340					
DPT0080 - 018.0		1355				1430					
028.0		1416				1430					
038.0		1439				1540					
043.0		1523				1540					
DPT0081 - 028.0		1535				1545					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)			2/23/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KB1#02310	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0081-038.0	4/23/10	1550			4/23/10	1600		GW	2	✓	
↓ 043.0		1605				1612					
DPT0080-048.0		1545				1630					
↓ -058.0		1609				1630					
DPT0081-048.0		1620				1635					
↓ 058.0		1640				1650					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			4/23/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB1K0224/0	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT082 - 010.0	7/24/10	0808			7/24/10	0815		GW	2	✓	
-018.0		0819				0840					
028.0		0831				0840					
033.0		0846				0915					
038.0		0908				0915					
043.0		0924				1005					
048.0		0953				1005					
DPT083 - 010.0		1151				1140					
018.0		1201				1240					
028.0		1213				1235					
033.0		1226				1235					
038.0		1242				1255					
043.0		1309				1350					
048.0		1326				1350					
DPT084 - 010.0		1416				1430					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			7/24/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRR KSC FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB1+022410											
DFT0084-018.0	2/24/10	1427			2/24/10	~~1450~~ 1505		GW	2	✓	
022.0	↓	1440			↓	1505		↓	↓	↓	
033.0		1454				1525					
038.0		1522				1550					
043.0		1538				1530					
048.0		1557				1615					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/24/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KSL

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHCE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KSL #022510											
DPT0085-018.0	7/15/10	0832			7/15/10	0845		GW	2	✓	
010.0		0821				0845					
028.0		0845				0920					
033.0		0910				0920					
038.0		0926				0955					
043.0		0945				0955					
048.0		1004				1027					
DPT0086-010.0		1039				1105					
018.0		1057				1100					
028.0		1136				1222					
033.0		1211				1222					
038.0		1228				1255					
043.0		1245				1255					
048.0		1303				1315					
DPT0087-010.0		1406				1410					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	7/15/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KG1

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CHPE KSC, FL
SAMPLERS
CONTACT PERSON
BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KG1-102570											
DPT0087-018.0	2/25/10	1444			2/25/10	1508		GW	2	✓	
-028.0		1457				1528					
-033.0		1511				1535					
-038.0		1527				1535					
-043.0		1547				1620					
048.0		1606				1620					
DPT0088-010.0		1255				1705					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/25/10	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB1#022610	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT008 - 018.0	2/26/10	0750			2/26/10	0900		GW	2	✓	
028.0		0806				0820					
033.0		0824				0830					
038.0		0841				0850					
043.0		0900				0910					
048.0		0935				0945					
DPT009 - 010.0		1006				1015					
018.0		1018				1025					
028.0		1032				1045					
033.0		1048				1100					
038.0		1105				1115					
043.0		1212				1225					
048.0		1230				1240					
DPT0090 - 010.0		1302				1315					
018.0		1315				1325					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	2/26/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1 #02610											
DPT009 0 -028.0	3/26/10	1334			3/26/10	1345		GW	2	✓	
-033.0	"	1352				1400					
038.0		1428				1440					
043.0		1446				1500					
048.0		1504				1524					
DPT 006 014.0		1536				1588					
023.0	↓	1548			↓	1600		↓	↓	↓	

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/26/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1*030110											
DPT0091-010.0	3/1/10	0806			3/1/10	0825		GW	2	✓	
018.0		0818				0825					
028.0		0828				0850					
033.0		0844				0850					
038.0		0942				1005					
043.0		0958				1005					
048.0		1025				1034					
DPT0092-010.0		1050				1110					
014.0		1100				1110					
018.0		1110				1130					
028.0		1124				1130					
033.0		1207				1240					
038.0		1233				1240					
043.0		1249				1315					
048.0		1306				1315					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/1/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS:

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB1*030/10											
DPT0093-010.0	3/1/10	1334			3/1/10	1350		GW	2	✓	
014.0		1344				1350					
018.0		1355				1405					
028.0		1419				1440					
033.0		1433				1440					
038.0		1449				1511					
043.0		1504				1511					
048.0		1521				1540					
DPT0094-010.0		1555				1607					
018.0		1614				1635					
028.0		1628				1635					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 3/1/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # K81

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRL ICSE, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0094-033.0	3/2/10	0745			3/2/10	0830		GW	2	✓	
038.0		0846				0930					
043.0		0903				0930					
048.0		0920				0940					
DPT0095-010.0		1017				1025					
018.0		1028				1050					
028.0		1041				1050					
033.0		1055				1120					
038.0		1110				1120					
043.0		1125				1135					
048.0		1217				1225					
DPT0096-010.0		1301				1310					
018.0		1313				1330					
028.0		1326				1350					
033.0		1341				1350					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	3/2/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K31

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E — 155, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0096-038.0	3/2/10	1401			3/2/10	1410		GW	2	✓	
043.0	↓	1418			↓	1425		↓	↓	↓	
048.0	↓	1435			↓	1446		↓	↓	↓	

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			3/2/10
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
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***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

June 28, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-137

Dear Ms.Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from June 14 to 124, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From June 14 to 24, 2010, a total of 152 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Changes for sample ID CRHE-DPT0097-010.0-20100614 reported:
   t-1,2-dichloroethene 28.8 changed to <1.0ug/L.
   c-1,2-dichloroethene <1.0 changed to 28.8ug/L.

3. Sample ID CRHE-DPT100-038.9-20100615 reported c-1, 2-dichloroethene 5900 changed to 59000 ug/L.

4. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier "I" some results were changed from the Field Report to the Final Report to reflect this requirement.

5. As per Geosyntec, the VC and TCE reporting limit on diluted samples with non-detects were lowered to KB Labs MDL and reported with FDEP Data Qualifier "I".

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BFB	06/14/10	108	110	97	94	Pass	Pass	Pass	Pass
VSTD 20	06/14/10	103	104	99	101	Pass	Pass	Pass	Pass
RSTD 20	06/14/10	85	102	98	97	Pass	Pass	Pass	Pass
BLANK	06/14/10	110	112	100	92	Pass	Pass	Pass	Pass
VSTD 20	06/14/10	105	114	94	95	Pass	Pass	Pass	Pass
METHOD BLANK	06/14/10	114	123	92	92	Pass	Pass	Pass	Pass
CRHE-DPT097-010.0-20100614	06/14/10	107	120	93	87	Pass	Pass	Pass	Pass
CRHE-DPT097-014.0-20100614	06/14/10	110	123	92	95	Pass	Pass	Pass	Pass
CRHE-DPT097-018.0-20100614	06/14/10	106	118	94	88	Pass	Pass	Pass	Pass
CRHE-DPT097-023.0-20100614	06/14/10	111	123	94	93	Pass	Pass	Pass	Pass
CRHE-DPT097-028.0-20100614	06/14/10	108	126	93	92	Pass	Pass	Pass	Pass
CRHE-DPT097-033.0-20100614	06/14/10	103	122	95	92	Pass	Pass	Pass	Pass
CRHE-DPT097-038.0-20100614	06/14/10	112	123	91	91	Pass	Pass	Pass	Pass
CRHE-DPT097-043.0-20100614	06/14/10	112	119	94	91	Pass	Pass	Pass	Pass
CRHE-DPT097-048.0-20100614	06/14/10	116	122	93	92	Pass	Pass	Pass	Pass
CRHE-DPT098-010.0-20100614	06/14/10	112	119	95	93	Pass	Pass	Pass	Pass
CRHE-DPT098-014.0-20100614	06/14/10	118	121	95	93	Pass	Pass	Pass	Pass
CRHE-DPT098-018.0-20100614	06/14/10	112	116	94	92	Pass	Pass	Pass	Pass
CRHE-DPT098-023.0-20100614	06/14/10	112	118	95	93	Pass	Pass	Pass	Pass
CRHE-DPT098-028.0-20100614	06/14/10	109	114	94	95	Pass	Pass	Pass	Pass
CRHE-DPT098-033.0-20100614	06/14/10	115	122	96	94	Pass	Pass	Pass	Pass
CRHE-DPT098-038.0-20100614	06/14/10	113	119	94	93	Pass	Pass	Pass	Pass
CRHE-DPT098-043.0-20100614	06/14/10	112	117	95	92	Pass	Pass	Pass	Pass
CRHE-DPT098-048.0-20100614	06/14/10	112	117	95	97	Pass	Pass	Pass	Pass
CRHE-DPT099-010.0-20100614	06/14/10	109	114	94	92	Pass	Pass	Pass	Pass
CRHE-DPT099-014.0-20100614	06/14/10	112	118	98	93	Pass	Pass	Pass	Pass
CRHE-DPT099-010.0-20100614MS	06/14/10	106	108	96	97	Pass	Pass	Pass	Pass
CRHE-DPT099-010.0-20100614MSD	06/14/10	102	105	97	96	Pass	Pass	Pass	Pass
VSTD 20	06/14/10	105	107	98	97	Pass	Pass	Pass	Pass
VSTD 20	06/15/10	104	102	96	95	Pass	Pass	Pass	Pass
RSTD 20	06/15/10	107	106	97	93	Pass	Pass	Pass	Pass
BLANK	06/15/10	112	115	96	90	Pass	Pass	Pass	Pass
METHOD BLANK	06/15/10	114	124	92	91	Pass	Pass	Pass	Pass
VSTD 20	06/15/10	110	117	92	93	Pass	Pass	Pass	Pass
CRHE-DPT097-010.0-20100615	06/15/10	114	120	92	93	Pass	Pass	Pass	Pass
CRHE-DPT097-014.0-20100615	06/15/10	113	125	91	92	Pass	Pass	Pass	Pass
CRHE-DPT099-018.0-20100615	06/15/10	117	121	94	90	Pass	Pass	Pass	Pass
CRHE-DPT099-023.0-20100615	06/15/10	118	123	92	90	Pass	Pass	Pass	Pass
CRHE-DPT099-028.0-20100615	06/15/10	194	209	93	91	> UCL	> UCL	Pass	Pass
CRHE-DPT099-033.0-20100615	06/15/10	116	120	92	91	Pass	Pass	Pass	Pass
CRHE-DPT099-038.0-20100616	06/16/10	117	122	94	91	Pass	Pass	Pass	Pass
CRHE-DPT099-043.0-20100616	06/16/10	116	117	91	93	Pass	Pass	Pass	Pass
CRHE-DPT099-048.0-20100616	06/16/10	118	120	91	91	Pass	Pass	Pass	Pass
CRHE-DPT100-010.0-20100616	06/16/10	116	120	93	91	Pass	Pass	Pass	Pass
CRHE-DPT100-014.0-20100616	06/16/10	117	120	94	90	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT100-018.0-20100616	06/16/10	117	117	93	93	Pass	Pass	Pass	Pass
CRHE-DPT100-023.0-20100616	06/16/10	118	120	95	92	Pass	Pass	Pass	Pass
CRHE-DPT100-028.0-20100616	06/16/10	117	120	91	93	Pass	Pass	Pass	Pass
CRHE-DPT100-033.0-20100616	06/16/10	117	121	91	92	Pass	Pass	Pass	Pass
CRHE-DPT100-038.0-20100616	06/16/10	113	115	94	92	Pass	Pass	Pass	Pass
CRHE-DPT100-043.0-20100616	06/16/10	111	111	92	94	Pass	Pass	Pass	Pass
CRHE-DPT100-048.0-20100616	06/16/10	114	115	93	94	Pass	Pass	Pass	Pass
CRHE-DPT101-010.0-20100616	06/16/10	118	117	94	95	Pass	Pass	Pass	Pass
CRHE-DPT101-014.0-20100616	06/16/10	113	112	93	96	Pass	Pass	Pass	Pass
CRHE-DPT101-018.0-20100616	06/16/10	113	111	93	95	Pass	Pass	Pass	Pass
CRHE-DPT101-023.0-20100616	06/16/10	115	113	90	94	Pass	Pass	Pass	Pass
CRHE-DPT101-010.0-20100616MS	06/16/10	110	106	94	97	Pass	Pass	Pass	Pass
CRHE-DPT101-010.0-20100616MSD	06/16/10	106	98	95	98	Pass	Pass	Pass	Pass
VSTD 20	06/16/10	102	95	97	96	Pass	Pass	Pass	Pass
RSTD 20	06/16/10	105	96	97	97	Pass	Pass	Pass	Pass
BLANK	06/16/10	111	109	91	89	Pass	Pass	Pass	Pass
CRHE-DPT099-038.0-20100616	06/16/10	113	108	93	92	Pass	Pass	Pass	Pass
CRHE-DPT100-028.0-20100616	06/16/10	115	106	94	91	Pass	Pass	Pass	Pass
CRHE-DPT101-023.0-20100616	06/16/10	114	113	90	91	Pass	Pass	Pass	Pass
VSTD 20	06/16/10	110	108	86	91	Pass	Pass	Pass	Pass
BLANK	06/16/10	109	114	92	88	Pass	Pass	Pass	Pass
CRHE-DPT101-028.0-20100616	06/16/10	111	119	89	88	Pass	Pass	Pass	Pass
CRHE-DPT101-033.0-20100616	06/16/10	109	113	92	89	Pass	Pass	Pass	Pass
CRHE-DPT101-038.0-20100616	06/16/10	110	114	95	87	Pass	Pass	Pass	Pass
CRHE-DPT101-043.0-20100616	06/16/10	115	120	91	88	Pass	Pass	Pass	Pass
CRHE-DPT101-048.0-20100616	06/16/10	4	116	91	87	< LCL	Pass	Pass	Pass
CRHE-DPT102-010.0-20100616	06/16/10	109	116	91	88	Pass	Pass	Pass	Pass
CRHE-DPT102-014.0-20100616	06/16/10	111	116	93	89	Pass	Pass	Pass	Pass
CRHE-DPT102-018.0-20100616	06/16/10	112	118	92	88	Pass	Pass	Pass	Pass
CRHE-DPT102-023.0-20100616	06/16/10	111	120	91	91	Pass	Pass	Pass	Pass
CRHE-DPT102-028.0-20100616	06/16/10	110	117	92	88	Pass	Pass	Pass	Pass
CRHE-DPT102-033.0-20100616	06/16/10	109	115	92	90	Pass	Pass	Pass	Pass
CRHE-DPT102-038.0-20100616	06/16/10	111	118	93	89	Pass	Pass	Pass	Pass
CRHE-DPT102-043.0-20100617	06/17/10	113	117	92	90	Pass	Pass	Pass	Pass
CRHE-DPT102-048.0-20100617	06/17/10	109	113	92	89	Pass	Pass	Pass	Pass
CRHE-DPT103-010.0-20100617	06/17/10	109	115	92	90	Pass	Pass	Pass	Pass
CRHE-DPT103-014.0-20100617	06/17/10	114	117	92	91	Pass	Pass	Pass	Pass
CRHE-DPT103-018.0-20100617	06/17/10	109	111	92	89	Pass	Pass	Pass	Pass
CRHE-DPT103-023.0-20100617	06/17/10	110	110	92	90	Pass	Pass	Pass	Pass
CRHE-DPT103-028.0-20100617	06/17/10	109	112	94	91	Pass	Pass	Pass	Pass
CRHE-DPT103-033.0-20100617	06/17/10	114	115	95	92	Pass	Pass	Pass	Pass
CRHE-DPT103-038.0-20100617	06/17/10	111	115	93	88	Pass	Pass	Pass	Pass
CRHE-DPT103-043.0-20100617	06/17/10	108	110	95	91	Pass	Pass	Pass	Pass
CRHE-DPT103-048.0-20100617	06/17/10	111	116	94	93	Pass	Pass	Pass	Pass
CRHE-DPT104-010.0-20100617	06/17/10	114	117	94	94	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT104-014.0-20100617	06/17/10	111	111	96	93	Pass	Pass	Pass	Pass
CRHE-DPT104-018.0-20100617	06/17/10	112	115	90	92	Pass	Pass	Pass	Pass
CRHE-DPT104-023.0-20100617	06/17/10	108	108	96	95	Pass	Pass	Pass	Pass
CRHE-DPT104-028.0-20100617	06/17/10	110	113	93	95	Pass	Pass	Pass	Pass
CRHE-DPT104-033.0-20100617	06/17/10	110	113	96	94	Pass	Pass	Pass	Pass
CRHE-DPT104-038.0-20100617	06/17/10	112	115	93	95	Pass	Pass	Pass	Pass
VSTD 20	06/17/10	107	111	93	97	Pass	Pass	Pass	Pass
VSTD 20	06/17/10	107	111	93	97	Pass	Pass	Pass	Pass
RSTD 20	06/17/10	101	99	99	97	Pass	Pass	Pass	Pass
BLANK	06/17/10	111	110	95	93	Pass	Pass	Pass	Pass
CRHE-DPT101-028.0-20100617	06/17/10	110	115	91	88	Pass	Pass	Pass	Pass
CRHE-DPT104-038.0-20100617	06/17/10	110	116	91	88	Pass	Pass	Pass	Pass
CRHE-DPT104-018.0-20100617MS	06/17/10	106	108	90	91	Pass	Pass	Pass	Pass
CRHE-DPT104-018.0-20100617MSD	06/17/10	102	103	91	92	Pass	Pass	Pass	Pass
VSTD 20	06/17/10	106	105	91	93	Pass	Pass	Pass	Pass
METHOD BLANK	06/17/10	110	112	93	90	Pass	Pass	Pass	Pass
CRHE-DPT104-043.0-20100617	06/17/10	110	117	92	88	Pass	Pass	Pass	Pass
CRHE-DPT104-048.0-20100617	06/17/10	111	116	91	88	Pass	Pass	Pass	Pass
CRHE-DPT105-010.0-20100617	06/17/10	109	109	92	88	Pass	Pass	Pass	Pass
CRHE-DPT105-014.0-20100617	06/17/10	111	110	93	92	Pass	Pass	Pass	Pass
CRHE-DPT105-018.0-20100617	06/17/10	110	109	94	88	Pass	Pass	Pass	Pass
CRHE-DPT105-023.0-20100617	06/17/10	110	112	92	90	Pass	Pass	Pass	Pass
CRHE-DPT105-028.0-20100617	06/17/10	113	114	90	91	Pass	Pass	Pass	Pass
CRHE-DPT105-033.0-20100617	06/17/10	110	112	92	91	Pass	Pass	Pass	Pass
CRHE-DPT105-038.0-20100617	06/17/10	110	112	90	90	Pass	Pass	Pass	Pass
CRHE-DPT105-043.0-20100617	06/17/10	112	114	93	91	Pass	Pass	Pass	Pass
CRHE-DPT105-048.0-20100617	06/17/10	112	110	94	91	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT010.0-20100618	06/18/10	113	113	92	90	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT014.0-20100618	06/18/10	114	110	93	92	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT018.0-20100618	06/18/10	113	112	92	90	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT023.0-20100618	06/18/10	110	108	91	92	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT028.0-20100618	06/18/10	113	111	93	92	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT033.0-20100618	06/18/10	114	114	93	95	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT038.0-20100618	06/18/10	113	113	94	95	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT043.0-20100618	06/18/10	114	114	94	94	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT048.0-20100618	06/18/10	111	111	94	97	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT048.0-20100618MS	06/18/10	104	100	96	100	Pass	Pass	Pass	Pass
CRHE-DPT106-DPT048.0-20100618MSD	06/18/10	105	101	95	99	Pass	Pass	Pass	Pass
VSTD 20	06/18/10	101	95	96	98	Pass	Pass	Pass	Pass
VSTD 20	06/18/10	101	100	98	100	Pass	Pass	Pass	Pass
RSTD 20	06/18/10	102	103	95	98	Pass	Pass	Pass	Pass
BLANK	06/18/10	107	110	91	90	Pass	Pass	Pass	Pass
CRHE-DPT107-010.0-20100618	06/18/10	112	118	94	92	Pass	Pass	Pass	Pass
CRHE-DPT107-018.0-20200618	06/18/10	111	115	93	92	Pass	Pass	Pass	Pass
CRHE-DPT107-028.0-20100618	06/18/10	113	114	91	92	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT107-033.0-20100618	06/18/10	109	109	91	89	Pass	Pass	Pass	Pass
CRHE-DPT107-038.9-20100618	06/18/10	111	111	93	87	Pass	Pass	Pass	Pass
CRHE-DPT107-043.0-20100618	06/18/10	116	114	90	90	Pass	Pass	Pass	Pass
CRHE-DPT107-048.0-20100618	06/18/10	114	113	91	90	Pass	Pass	Pass	Pass
CRHE-DPT108-010.0-20100618	06/18/10	114	114	91	88	Pass	Pass	Pass	Pass
CRHE-DPT108-018.0-20101618	06/18/10	112	112	92	90	Pass	Pass	Pass	Pass
CRHE-DPT108-028.0-10100618	06/18/10	116	118	90	89	Pass	Pass	Pass	Pass
CRHE-DPT108-033.0-10100618	06/18/10	111	112	90	89	Pass	Pass	Pass	Pass
CRHE-DPT108-038.0-10100618	06/18/10	116	116	89	89	Pass	Pass	Pass	Pass
CRHE-DPT108-043.0-10100618	06/18/10	113	115	91	90	Pass	Pass	Pass	Pass
CRHE-DPT108-048.0-10100618	06/18/10	111	113	90	87	Pass	Pass	Pass	Pass
CRHE-DPT108-058.0-10100618	06/18/10	113	117	89	88	Pass	Pass	Pass	Pass
CRHE-DPT108-058.0-10100618MS	06/18/10	109	103	91	89	Pass	Pass	Pass	Pass
CRHE-DPT108-058.0-10100618MSD	06/18/10	105	104	93	91	Pass	Pass	Pass	Pass
VSTD 20	06/18/10	107	103	92	92	Pass	Pass	Pass	Pass
CCS	06/21/10	106	111	94	92	Pass	Pass	Pass	Pass
LCS	06/21/10	95	113	93	92	Pass	Pass	Pass	Pass
METHOD BLANK	06/21/10	114	122	94	90	Pass	Pass	Pass	Pass
CRHE-DPT109-010.0-20100621	06/21/10	113	118	94	91	Pass	Pass	Pass	Pass
CRHE-DPT109-018.0-20100621	06/21/10	112	119	95	90	Pass	Pass	Pass	Pass
CRHE-DPT109-028.0-20100621	06/21/10	110	118	94	90	Pass	Pass	Pass	Pass
CRHE-DPT109-033.0-20100621	06/21/10	112	118	94	91	Pass	Pass	Pass	Pass
CRHE-DPT109-038.0-20100621	06/21/10	110	116	95	90	Pass	Pass	Pass	Pass
CRHE-DPT109-043.0-20100621	06/21/10	114	118	91	90	Pass	Pass	Pass	Pass
CRHE-DPT109-048.0-20100621	06/21/10	109	116	92	90	Pass	Pass	Pass	Pass
CRHE-DPT110-033.0-20100621	06/21/10	111	117	94	93	Pass	Pass	Pass	Pass
CRHE-DPT110-038.0-20100621	06/21/10	94	113	94	90	Pass	Pass	Pass	Pass
CRHE-DPT110-043.0-20100621	06/21/10	109	112	94	91	Pass	Pass	Pass	Pass
CRHE-DPT110-048.0-20100621	06/21/10	114	120	96	90	Pass	Pass	Pass	Pass
CRHE-DPT111-010.0-20100621	06/21/10	112	118	92	90	Pass	Pass	Pass	Pass
CRHE-DPT111-018.0-20100621	06/21/10	110	114	95	90	Pass	Pass	Pass	Pass
CRHE-DPT111-028.0-20100621	06/21/10	113	114	92	91	Pass	Pass	Pass	Pass
CRHE-DPT111-033.0-20100621	06/21/10	113	114	94	90	Pass	Pass	Pass	Pass
CRHE-DPT111-038.0-20100621	06/21/10	114	115	93	91	Pass	Pass	Pass	Pass
CRHE-DPT111-043.0-20100621	06/21/10	112	111	96	89	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client:GeoSystem Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu,Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**10-137
On-site Dates: 6/14/10-6/24/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT111-048.0-20100621	06/21/10	110	110	94	88	Pass	Pass	Pass	Pass
CRHE-DPT111-058.0-20100621	06/21/10	114	112	93	90	Pass	Pass	Pass	Pass
CRHE-DPT112-010.0-20100621	06/21/10	113	110	95	90	Pass	Pass	Pass	Pass
CRHE-DPT112-018.0-20100621	06/21/10	114	111	92	91	Pass	Pass	Pass	Pass
CRHE-DPT112-028.0-20100621	06/21/10	114	112	92	89	Pass	Pass	Pass	Pass
CRHE-DPT112-033.0-20100621	06/21/10	108	108	98	90	Pass	Pass	Pass	Pass
CRHE-DPT112-038.0-20100621	06/21/10	108	105	96	92	Pass	Pass	Pass	Pass
CRHE-DPT112-043.0-20100621	06/21/10	101	108	96	89	Pass	Pass	Pass	Pass
CRHE-DPT112-048.0-20100621	06/21/10	111	106	99	90	Pass	Pass	Pass	Pass
CRHE-DPT112-048.0-20100621MS	06/21/10	103	96	96	94	Pass	Pass	Pass	Pass
CRHE-DPT112-048.0-20100621MSD	06/21/10	103	96	96	95	Pass	Pass	Pass	Pass
LCS 20	06/21/10	99	90	98	94	Pass	Pass	Pass	Pass
LCS 20	06/23/10	94	99	96	101	Pass	Pass	Pass	Pass
CCS 20	06/23/10	103	105	94	85	Pass	Pass	Pass	Pass
METHOD BLANK	06/23/10	110	112	94	90	Pass	Pass	Pass	Pass
CRHE-DPT113-010.0-20100623	06/23/10	110	113	94	89	Pass	Pass	Pass	Pass
CRHE-DPT113-018.0-20100623	06/23/10	109	113	93	87	Pass	Pass	Pass	Pass
CRHE-DPT113-028.0-20100623	06/23/10	113	117	94	88	Pass	Pass	Pass	Pass
CRHE-DPT113-033.0-20100623	06/23/10	110	116	92	90	Pass	Pass	Pass	Pass
METHOD BLANK RERUN	06/23/10	110	118	93	91	Pass	Pass	Pass	Pass
VSTD 20	06/23/10	104	104	95	92	Pass	Pass	Pass	Pass
CRHE-DPT113-038.0-20100623	06/23/10	111	117	93	90	Pass	Pass	Pass	Pass
CRHE-DPT113-043.0-20100623	06/23/10	110	116	94	89	Pass	Pass	Pass	Pass
CRHE-DPT113-048.0-20100623	06/23/10	114	120	90	88	Pass	Pass	Pass	Pass
CRHE-DPT114-010.0-20100623	06/23/10	110	117	95	88	Pass	Pass	Pass	Pass
CRHE-DPT114-018.0-20100623	06/23/10	113	115	95	89	Pass	Pass	Pass	Pass
CRHE-DPT114-028.0-20100623	06/23/10	113	117	93	89	Pass	Pass	Pass	Pass
CRHE-DPT114-033.0-20100623	06/23/10	111	115	94	88	Pass	Pass	Pass	Pass
CRHE-DPT114-038.0-20100623	06/23/10	109	111	95	90	Pass	Pass	Pass	Pass
CRHE-DPT114-043.0-20100623	06/23/10	107	111	92	88	Pass	Pass	Pass	Pass
CRHE-DPT114-048.0-20100623	06/23/10	111	110	95	88	Pass	Pass	Pass	Pass
CRHE-DPT115-010.0-20100623	06/23/10	110	108	93	90	Pass	Pass	Pass	Pass
CRHE-DPT115-018.0-20100623	06/23/10	108	105	96	89	Pass	Pass	Pass	Pass
CRHE-DPT115-028.0-20100623	06/23/10	111	106	98	89	Pass	Pass	Pass	Pass
CRHE-DPT115-033.0-20100623	06/23/10	112	105	97	89	Pass	Pass	Pass	Pass
CRHE-DPT115-038.0-20100623	06/23/10	108	104	96	89	Pass	Pass	Pass	Pass
CRHE-DPT115-043.0-20100623	06/23/10	112	105	95	90	Pass	Pass	Pass	Pass
CRHE-DPT115-048.0-20100623	06/23/10	110	103	97	91	Pass	Pass	Pass	Pass
CRHE-DPT115-048.0-20100623MS	06/23/10	102	94	98	93	Pass	Pass	Pass	Pass
CRHE-DPT115-048.0-20100623MSD	06/23/10	101	90	98	94	Pass	Pass	Pass	Pass
VSTD 20	06/23/10	100	90	98	94	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**
S1 = Dibromofluoromethane (54% - 149%)
S2 = 1,2- Dichloroethane-D4 (61% - 156%)
S3 = Toluene-D8 (72% - 127%)
S4 = 4-Bromofluorobenzene (72% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-137
Onsite Dates: 6/14/10-6/24/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT099-010.0 **Date of Analysis:** 6/15/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	91	99	9	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	90	99	9	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	97	105	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	89	9	Pass	Pass	Pass
Trichloroethene	70	136	20	84	98	15	Pass	Pass	Pass
Tetrachloroethene	57	152	20	80	89	11	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT101-010.0 **Date of Analysis:** 6/16/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	108	109	1	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	103	106	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	117	125	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	100	101	1	Pass	Pass	Pass
Trichloroethene	70	136	20	95	96	1	Pass	Pass	Pass
Tetrachloroethene	57	152	20	89	93	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT104-018.8 **Date of Analysis:** 6/17/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	75	66	12	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	84	74	12	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	92	83	10	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	90	83	8	Pass	Pass	Pass
Trichloroethene	70	136	20	94	84	12	Pass	Pass	Pass
Tetrachloroethene	57	152	20	88	84	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT106-048.0 **Date of Analysis:** 6/18/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	95	98	2	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	94	97	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	98	102	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	89	95	6	Pass	Pass	Pass
Trichloroethene	70	136	20	90	93	4	Pass	Pass	Pass
Tetrachloroethene	57	152	20	90	90	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-137
Onsite Dates: 6/14/10-6/24/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT108-058.0 **Date of Analysis:** 6/18/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	101	95	5	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	94	91	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	100	98	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	93	93	0	Pass	Pass	Pass
Trichloroethene	70	136	20	91	91	0	Pass	Pass	Pass
Tetrachloroethene	57	152	20	88	91	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT112-048.0 **Date of Analysis:** 6/22/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	100	105	4	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	92	96	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	97	101	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	82	91	10	Pass	Pass	Pass
Trichloroethene	70	136	20	89	96	8	Pass	Pass	Pass
Tetrachloroethene	57	152	20	85	90	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT115-048.0 **Date of Analysis:** 6/24/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	40	143	20	109	104	4	Pass	Pass	Pass
1,1-Dichloroethene	45	144	20	97	95	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	68	130	20	102	102	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	59	156	20	91	90	2	Pass	Pass	Pass
Trichloroethene	70	136	20	93	79	16	Pass	Pass	Pass
Tetrachloroethene	57	152	20	91	93	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb, Herb Kelly
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-137
Onsite Dates: 6/14/10-6/24/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 6/14/2010
LCS 2 6/15/2010
LCS 3 6/16/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	28	to	161	95	100	110	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	98	99	107	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	99	108	117	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	84	91	102	Pass	Pass	Pass
Trichloroethene	47	to	164	105	89	98	Pass	Pass	Pass
Tetrachloroethene	60	to	151	94	91	102	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:** 6/17/2010
LCS 5 6/18/2010
LCS 6 6/21/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	28	to	161	96	97	87	Pass	Pass	Pass
1,1-Dichloroethene	43	to	156	94	96	83	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	to	133	98	95	87	Pass	Pass	Pass
Cis-1,2-Dichloroethene	60	to	150	92	95	76	Pass	Pass	Pass
Trichloroethene	47	to	164	88	90	96	Pass	Pass	Pass
Tetrachloroethene	60	to	151	89	93	76	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 **Date of Analysis:** 6/21/2010
LCS 8 6/23/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8		LCS#7	LCS#8	
Vinyl Chloride	28	to	161	106	152		Pass	Pass	
1,1-Dichloroethene	43	to	156	95	154		Pass	Pass	
Trans-1,2-Dichloroethene	61	to	133	102	147		Pass	> UCL	
Cis-1,2-Dichloroethene	60	to	150	93	143		Pass	Pass	
Trichloroethene	47	to	164	91	111		Pass	Pass	
Tetrachloroethene	60	to	151	92	94		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0097-010.0-20100614	6/14/10	Water	1,10	**160**	<1.0	<1.0	**28.8**	<1.0	<1.0
CRHE-DPT0097-014.0-20100614	6/14/10	Water	20,50	**1500**	<20	**72**	**3100**	<5.8 I	<20
CRHE-DPT0097-018.0-20100614	6/14/10	Water	200	**1000**	<200	**520**	**16000**	<58 I	<200
CRHE-DPT0097-023.0-20100614	6/14/10	Water	1000	**1500**	<1000	**2100**	**52000**	**3800**	<1000
CRHE-DPT0097-028.0-20100614	6/14/10	Water	100	**1400**	<100	**110**	**3200**	<29 I	<100
CRHE-DPT0097-033.0-20100614	6/15/10	Water	5	**1.6 I**	<5.0	<5.0	**4.6 I**	<1.4 I	<5.0
CRHE-DPT0097-038.0-20100614	6/15/10	Water	1	**1.6**	<1.0	<1.0	**8.9**	<1.0	<1.0
CRHE-DPT0097-043.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0
CRHE-DPT0097-048.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	**8.6**	<1.0	<1.0
CRHE-DPT0098-010.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-014.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-018.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-023.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0098-028.0-20100614	6/15/10	Water	2	**7.6**	<2.0	<2.0	<2.0	<1.0 I	<2.0
CRHE-DPT0098-033.0-20100614	6/15/10	Water	100	**320**	<100	**120**	**1000**	**580**	<100
CRHE-DPT0098-038.0-20100614	6/15/10	Water	2000	**13000**	<2000	**700 I**	**49000**	**36000**	<2000
CRHE-DPT0098-043.0-20100614	6/15/10	Water	20	**64**	<20	**5.4 I**	**220**	**23**	<20
CRHE-DPT0098-048.0-20100614	6/15/10	Water	10	**6.4 I**	<10	<10	**19**	**16**	<10
CRHE-DPT0099-010.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0099-014.0-20100614	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0099-018.0-20100615	6/15/10	Water	1	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0099-023.0-20100615	6/15/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0099-028.0-20100615	6/15/10	Water	5	**180**	<5.0	**8.8**	**32**	<1.4 I	<5.0
CRHE-DPT0099-033.0-20100615	6/15/10	Water	200	**13000**	<200	**82 I**	**6500**	<200	<200
CRHE-DPT0099-038.0-20100615	6/16/10	Water	10, 200	**4900**	<10	**11**	**370**	<2.9 I	<10
CRHE-DPT0099-043.0-20100615	6/16/10	Water	1	**1.9**	<1.0	<1.0	**1.5**	<1.0	<1.0
CRHE-DPT0099-048.0-20100615	6/16/10	Water	1	**2.6**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0100-010.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-014.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-018.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0100-023.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-028.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0100-033.0-20100615	6/16/10	Water	1000	**7400**	<1000	**620 I**	**31000**	**21000**	<1000
CRHE-DPT0100-038.0-20100615	6/16/10	Water	2000	**17000**	<2000	**780 I**	**59000**	**32000**	<2000
CRHE-DPT0100-043.0-20100615	6/16/10	Water	5	**72**	<5.0	**6.6**	**380**	**210**	<5.0
CRHE-DPT0100-048.0-20100615	6/16/10	Water	1	**5.4**	<1.0	<1.0	**28.0**	**19.5**	<1.0
CRHE-DPT0101-010.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-014.0-20100615	6/16/10	Water	1	**1.6**	<1.0	<1.0	**1.1**	<1.0	<1.0
CRHE-DPT0101-018.0-20100615	6/16/10	Water	1	**8.8**	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0101-023.0-20100615	6/16/10	Water	1	**30.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-028.0-20100615	6/16/10	Water	1,10	**260**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-033.0-20100615	6/16/10	Water	10	**120**	<10	<10	<10	<2.9 I	<10
CRHE-DPT0101-038.0-20100615	6/16/10	Water	1	**12.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-043.0-20100615	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0101-048.0-20100615	6/16/10	Water	1	**3.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-010.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-014.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-018.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-023.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-028.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-033.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-038.0-20100616	6/16/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-043.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0102-048.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-010.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-014.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-018.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-023.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-028.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0103-033.0-20100616	6/17/10	Water	2	**13**	<2.0	<2.0	<2.0	<1.0 I	<2.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0103-038.0-20100616	6/17/10	Water	200	**4000**	<200	**160 I**	**8700**	**2900**	<200
CRHE-DPT0103-043.0-20100616	6/17/10	Water	100	**690**	<100	**57 I**	**2200**	**1300**	<100
CRHE-DPT0103-048.0-20100616	6/17/10	Water	5	<1.2 I	<5.0	<5.0	**3.0 I**	**2.4 I**	<5.0
CRHE-DPT0104-010.0-20100616	6/17/10	Water	5	<1.2 I	<5.0	<5.0	<5.0	<1.4 I	<5.0
CRHE-DPT0104-014.0-20100616	6/17/10	Water	5	<1.2 I	<5.0	<5.0	<5.0	<1.4 I	<5.0
CRHE-DPT0104-018.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-023.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-028.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-033.0-20100616	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0104-038.0-20100616	6/17/10	Water	1,10	**530**	<1.0	**1.8**	<1.0	<1.0	<1.0
CRHE-DPT0104-043.0-20100617	6/17/10	Water	10	**790**	<10	<10	**61**	<2.8 I	<10
CRHE-DPT0104-048.0-20100617	6/17/10	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-010.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-014.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-018.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-023.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-028.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-033.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-038.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-043.0-20100617	6/17/10	Water	1	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0105-048.0-20100617	6/17/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-010.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-014.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-018.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-023.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-028.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-033.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-038.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-043.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0106-048.0-20100617	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0107-010.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-018.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-028.0-20100618	6/18/10	Water	1	**21.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-033.0-20100618	6/18/10	Water	1	**15.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-038.0-20100618	6/18/10	Water	1	**3.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-043.0-20100618	6/18/10	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0107-048.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-010.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-018.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-028.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-033.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-038.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-043.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-048.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0108-058.0-20100618	6/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-010.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-018.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-028.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-033.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-038.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-043.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0109-048.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-033.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-038.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-043.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0110-048.0-20100621	6/21/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-010.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-018.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-028.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-033.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0111-038.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-043.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-048.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0111-058.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-010.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-018.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-028.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-033.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-038.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-043.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0112-048.0-20100621	6/22/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-010.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-018.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-028.0-20100622	6/23/10	Water	1	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-033.0-20100622	6/23/10	Water	1	**6.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-038.0-20100622	6/23/10	Water	1	**3.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-043.0-20100622	6/23/10	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0113-048.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-010.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-018.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-028.0-20100622	6/23/10	Water	1	**3.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-033.0-20100622	6/23/10	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-038.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-043.0-20100622	6/23/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0114-048.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-010.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-018.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-028.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-033.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-038.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-137

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.24**	**0.29**	**0.28**	**0.27**	**0.29**	**0.3**
CRHE-DPT0115-043.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0115-048.0-20100622	6/24/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CKHE - KSC

SAMPLERS

CONTACT PERSON: Jan Bartus

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT097-10.0 2010	6.14	0916		✓	6/14/10			W	2	✓	
14.0		0925									
18.0		0939									
23.0		0950									
28.0		1005									
33.0		1023									
38.0		1045									
43.0		1125									
48.0		1147									
DPT098-10.0		1350									
14.0		1400									
18.0		1415									
23.0		1430									
28.0		1446									
33.0		1505									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/14/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
GeoSyntec	CAFE - KSC
SAMPLERS	CONTACT PERSON: Jan Bartus
	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT098-38.0 2010	0614	1535		✓	0614			W	2	✓	
-43.0		1557									
-48.0		1624									
DPT099-10.0		1825									
-14.0		1837									

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time: 6/14/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRTE KSC
SAMPLERS	**CONTACT PERSON**
✓	Jan Barfus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
*FHE DPT099-18.0 2010	0615	0751		✓	6/15/10	1245		W	2	✓	
-23.0		0805									
-28.0		0821									
-33.0		0847									
-38.0		0912									
-43.0		0931									
-48.0		0952				✓					
DPT100-10.0		1047				1755					
14.0		1057									
18.0		1110									
23.0		1120									
28.0		1136									
33.0		1150									
38.0		1313									
43.0		1332									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/15/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
Ecosystec	CRHE KSC
SAMPLERS	**CONTACT PERSON**
	Jan Bartus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT100-48.0 2010	0615	1354		✓	6/15/10	1755		W	2	✓	
DPT101-10.0		1529									
-14.0		1538									
-18.0		1548									
-23.0		1600									
-28.0		1613									
-33.0		1628									
-38.0		1646									
-43.0		1705									
-48.0		1724									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/15/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC

SAMPLERS: ✓

CONTACT PERSON: Jan Barfus

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE-DPT0102-010.0-20100616	6/16/10	0813		✓	6/16/10	1733		W	2	✓	
-014.0		0835									
-018.0		0850									
-023.0		0900									
-028		0917									
-033		0937									
-038		1000									
-043		1018									
-048		1040									
DPT103-010		1130									
-014		1136									
-018		1149									
-023		1200									
-028		1216									
-033		1331									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/16/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CAFE KSC

SAMPLERS: /

CONTACT PERSON: Jan Bartus

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0103-038.0 2010	0616	1346		✓	6/16/10	1733		W	2	✓	
-043.0		1410									
-048.0		1505									
DPT01M-010		1548									
-014		1600									
-018		1614									
-023		1626									
-028		1639									
-033		1653									
-038 ✓		1708									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: *(Signature)*	Date / Time
Precleaned Containers Relinquished by: *(Signature)*			
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/16/10

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CLHE KSC

SAMPLERS

CONTACT PERSON: Jan Backus

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CLHE DPT0104-0430 2010	6/17	0809		✓	06/17/10	1750		W	2	✓	
048.0		0834									
DPT0105-010.0		0923									
-014.0		0933									
-018.0		0948									
-023.0		1000									
-028.0		1016									
-033.0		1030									
-038.0		1050									
-043.0		1116									
-048.0		1135									
DPT0106-010.0		1320									
-014.0		1329									
-018.0		1341									
-023.0		1407									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/17/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
Geo Synte	CRTE KSC
SAMPLERS	CONTACT PERSON: Jan Banks
	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRTE DPTE106-028.0 2010	0617	1603		✓	6/17/10	1750		W	2	✓	
-033.0		1617									
-038.0		1648									
-043.0		1705									
-048.0		1725									

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time: 6/17/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA CHRE

SAMPLERS

CONTACT PERSON: JAN Barfus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE-DDT0107-010.0-2010	0618	0852			4/18/10	0930		W	2	✓	
-018.0		0904									
-028.0		0919				↓					
-033.0		0934				1100					
-038.0		1007									
-043.0		1022									
-048.0		1041				↓					
DFT0108-010.0		1133				1213					
-018.0		1144									
-028.0		1156									
-033.0		1210				↓					
-038.0		1227				1306					
-043.0		1244				↓					
-048.0		1334				1405					
-058.0	↓	1354			↓	↓		↓	↓	↓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			4/19/1405	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KBI

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE ; KSC

SAMPLERS:

CONTACT PERSON: Jan Barnes

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DP10109-010.0 2010	6/2	0718		✓	6/21/10	1800		W	✓	✓	
18		0733									
28		0747									
33		0802									
38		0823									
43		0844									
48		0905									
DPT0110-033.0		1014									
38		1030									
43		1050									
48		1107									
DPT0111-010.0		1150									
18		1200									
28		1213									
33		1227									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/21/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB1

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CCAFB, KSC

SAMPLERS:

CONTACT PERSON: Jan Burks

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0111-038.0 2010	0610	1321		✓	6/21/10	1800		W	2	1	
-043		1351									
-048		1416									
-058		1448									
DPT0112-010		1547									
18		1556									
28		1610									
33		1627							1 1/2		* one bottle about half mud
38		1656									
43		1715									
48		1731									

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time 6/21/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB1

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE

SAMPLERS:

CONTACT PERSON: Jan Bartus

BATCH # (Lab Use Only):

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE											
DPT013-010.0-20100622	6/22/10	0813		✓	6/22/10	1800		W	2	✓	
018.0		0823									
028.0		0834									
033.0		0850									
038.0		0924									
043.0		0945									
048.0		1016									
DPT014-010.0		1055 ~~1105~~									
018.0		1105 1117									
028.0		1117 1122									
033.0		1122 ~~1205~~									
038.0		1205 ~~1220~~									
043.0		1220 ~~1337~~									
048.0		1337 ~~1405~~									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/22/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # MB1

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE CHRE

SAMPLERS:

CONTACT PERSON: Jan Barkus

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE											
DPT0115-010.0-20100622		1425		✓	6/22/10	1800		W	2	✓	
018.0		1438									
~~023.0~~		~~1447~~									
028.0		~~1506~~ 1447									
033.0		~~1534~~ 1506									
038.0	6/23/10	~~1552~~ 1534									
043.0		1552									
048.0		1607		↓							

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/24/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

August 13, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-169

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from August 2 to 12, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From August 2 to 12, 2010, a total of 180 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHE-DPT0117-048.0-20100802 reported vinyl chloride <1.0 changed to 4.7ug/L.

3. Sample IDCRHE-DPT0126-018.0-20100805 reported c-1, 2-dichloroethene <1.0 changed to 2.1ug/L.

4. Sample ID CRHE-IDW178747-20100806 has an "L" qualifier for c-1, 2-dichloroethene indicating the concentration exceeded Calibration range.

5. Sample ID CRHE-DPT0135-038.0-20100810 has an "L" qualifier for vinyl chloride indicating the Concentration exceeded Calibration range.

6. Changes for sample ID CRHE-DPT0134-043.0-20100810 reported: vinyl chloride 790 changed to 200ug/L.

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t-1,2-dichloroethene 38 I changed to 43 I.
c-1,2-dichloroethene 2800 changed to 1500ug/L.
trichloroethene 50 changed to 1500ug/L.

7. Sample ID CRHE-DPT0136-043.0-20100810 reported c-1, 2-dichloroethene 1.8 changed to <1.0ug/L.

8. Sample ID CRHE-DPT0136-043.0-20100810 should be CRHE-DPT0136-048.0-20100810.

9. As per NASA Client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier “I” some results were changed from the field Report to the Final Report to reflect this requirement.

10. Because the presence of high level freon compounds and to prevent damage to the analytical instrument, several samples were diluted without any target compounds being identified:

    CRHE-DPT116-018.0-20100802
    CRHE-DPT116-028.0-20100802
    CRHE-DPT116-033.0-20100802
    CRHE-DPT117-038.0-20100802

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	08/02/10	103	114	105	100	Pass	Pass	Pass	Pass
BLANK	08/02/10	108	119	101	98	Pass	Pass	Pass	Pass
RSTD 20	08/02/10	96	88	113	103	Pass	Pass	> UCL	Pass
CRHE-DPT0116-010.0	08/02/10	108	95	95	99	Pass	Pass	Pass	Pass
CRHE-DPT0116-018.0 1:100	08/02/10	103	92	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0116-028.0 1:100	08/02/10	104	97	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0116-033.0 1:50	08/02/10	112	98	102	97	Pass	Pass	Pass	Pass
CRHE-DPT0116-038.0	08/02/10	100	99	101	95	Pass	Pass	Pass	Pass
CRHE-DPT0116-043.0	08/02/10	113	98	102	94	Pass	Pass	Pass	Pass
CRHE-DPT0116-048.0	08/02/10	103	84	95	98	Pass	Pass	Pass	Pass
CRHE-DPT0117-018.0	08/02/10	106	97	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0117-010.0	08/02/10	112	111	105	100	Pass	Pass	Pass	Pass
VSTD 20	08/02/10	101	95	106	101	Pass	Pass	Pass	Pass
VSTD 20	08/03/10	105	125	102	99	Pass	Pass	Pass	Pass
BLANK	08/03/10	113	124	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0117-028.0	08/03/10	108	120	102	100	Pass	Pass	Pass	Pass
CRHE-DPT0117-033.0	08/03/10	87	103	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0117-038.0 1:20	08/03/10	111	129	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0117-043.0	08/03/10	112	128	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0117-048.0	08/03/10	112	132	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0118-010.0	08/03/10	114	133	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0118-018.0	08/03/10	114	133	103	96	Pass	Pass	Pass	Pass
CRHE-DPT0118-028.0	08/03/10	116	140	102	99	Pass	> UCL	Pass	Pass
CRHE-DPT0118-033.0	08/03/10	68	81	97	99	< LCL	Pass	Pass	Pass
CRHE-DPT0118-038.0 1:5	08/03/10	113	141	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0118-043.0	08/03/10	119	146	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0118-048.0	08/03/10	120	144	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0119-010.0	08/03/10	116	140	102	96	Pass	> UCL	Pass	Pass
CRHE-DPT0119-014.0	08/03/10	116	134	104	96	Pass	> UCL	Pass	Pass
CRHE-DPT0119-018.0	08/03/10	119	146	99	95	Pass	> UCL	Pass	Pass
CRHE-DPT0119-023.0	08/03/10	118	149	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0119-028.0	08/03/10	120	150	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0119-033.0	08/03/10	69	94	93	103	< LCL	Pass	Pass	Pass
CRHE-DPT0119-038.0	08/03/10	120	148	101	95	Pass	> UCL	Pass	Pass
CRHE-DPT0119-043.0	08/03/10	120	150	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0119-048.0	08/03/10	120	153	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0120-010.0	08/03/10	119	147	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0120-014.0	08/03/10	120	146	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0120-018.0 1:10	08/03/10	72	96	93	100	< LCL	Pass	Pass	Pass
CRHE-DPT0120-023.0 1:100	08/03/10	120	152	99	95	Pass	> UCL	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0120-028.0 1:2	08/03/10	120	157	99	95	Pass	> UCL	Pass	Pass
CRHE-DPT0120-033.0	08/03/10	122	151	98	96	> UCL	> UCL	Pass	Pass
CRHE-DPT0120-038.0	08/03/10	119	148	99	94	Pass	> UCL	Pass	Pass
CRHE-DPT0120-043.0	08/03/10	122	158	99	95	> UCL	> UCL	Pass	Pass
CRHE-DPT0120-048.0	08/03/10	121	154	101	95	Pass	> UCL	Pass	Pass
CRHE-DPT0121-010.0	08/03/10	122	150	99	96	> UCL	> UCL	Pass	Pass
CRHE-DPT0121-014.0	08/03/10	120	151	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0121-018.0	08/03/10	118	153	101	99	Pass	> UCL	Pass	Pass
CRHE-DPT0120-048.0 MSD	08/03/10	111	151	104	98	Pass	> UCL	Pass	Pass
LCS	08/03/10	112	156	103	96	Pass	> UCL	Pass	Pass
CCS 20	08/03/10	107	151	104	95	Pass	> UCL	Pass	Pass
VSTD 20	08/04/10	97	113	104	98	Pass	Pass	Pass	Pass
LCS	08/04/10	103	130	104	97	Pass	Pass	Pass	Pass
BLANK	08/04/10	110	120	104	99	Pass	Pass	Pass	Pass
CRHE-DPT0121-023.0	08/04/10	116	132	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0119-033.0 1:5	08/04/10	117	140	101	99	Pass	> UCL	Pass	Pass
CRHE-DPT0121-028.0	08/04/10	113	135	102	101	Pass	> UCL	Pass	Pass
CRHE-DPT0121-033.0	08/04/10	112	136	103	100	Pass	> UCL	Pass	Pass
CRHE-DPT0121-038.0 1:100	08/04/10	114	139	102	103	Pass	> UCL	Pass	Pass
CRHE-DPT0121-043.0 1:50	08/04/10	115	145	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0121-048.0	08/04/10	116	148	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-010.0	08/04/10	117	144	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-014.0	08/04/10	118	148	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0122-018.0	08/04/10	119	153	100	99	Pass	> UCL	Pass	Pass
CRHE-DPT0122-023.0	08/04/10	116	148	101	100	Pass	> UCL	Pass	Pass
CRHE-DPT0122-028.0	08/04/10	121	152	98	97	Pass	> UCL	Pass	Pass
CRHE-DPT0122-033.0	08/04/10	118	150	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0122-038.0 1:100	08/04/10	119	156	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0122-043.0 1:100	08/04/10	118	154	99	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-048.0	08/04/10	117	149	101	99	Pass	> UCL	Pass	Pass
CRHE-DPT0122-010.0 MS	08/04/10	110	150	103	98	Pass	> UCL	Pass	Pass
CRHE-DPT0122-010.0 MSD	08/04/10	107	145	104	96	Pass	> UCL	Pass	Pass
CRHE-DPT0121-023.0 MS	08/04/10	108	148	103	96	Pass	> UCL	Pass	Pass
CRHE-DPT0121-023.0 MSD	08/04/10	109	149	104	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-010.0	08/04/10	116	146	103	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-014.0	08/04/10	114	149	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0123-018.0	08/04/10	116	145	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-023.0	08/04/10	108	138	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0123-028.0	08/04/10	116	149	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0123-033.0	08/04/10	119	151	100	97	Pass	> UCL	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0123-038.0	08/04/10	118	149	100	96	Pass	> UCL	Pass	Pass
CCS 20	08/04/10	113	160	102	97	Pass	> UCL	Pass	Pass
VSTD 20	08/05/10	105	131	105	97	Pass	Pass	Pass	Pass
LCS 20	08/05/10	108	138	103	96	Pass	> UCL	Pass	Pass
BLANK	08/05/10	114	130	104	98	Pass	Pass	Pass	Pass
CRHE-DPT0123-038.0 MS	08/05/10	104	134	104	99	Pass	> UCL	Pass	Pass
CRHE-DPT0123-038.0 MSD	08/05/10	106	137	103	99	Pass	> UCL	Pass	Pass
CRHE-DPT0123-043.0	08/05/10	81	103	98	102	< LCL	Pass	Pass	Pass
CRHE-DPT0123-048.0	08/05/10	112	134	103	99	Pass	> UCL	Pass	Pass
CRHE-DPT0123-043.0	08/05/10	109	129	105	100	Pass	Pass	Pass	Pass
CRHE-DPT0124-010.0	08/05/10	116	141	102	100	Pass	> UCL	Pass	Pass
CRHE-DPT0124-014.0	08/05/10	115	143	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-018.0 1:5	08/05/10	112	140	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-023.0 1:50	08/05/10	114	142	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-028.0	08/05/10	110	134	105	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-033.0	08/05/10	114	148	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-038.0 1:5	08/05/10	117	148	102	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-043.0	08/05/10	119	147	103	98	Pass	> UCL	Pass	Pass
CRHE-DPT0124-048.0	08/05/10	115	149	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0124-018.0 1:100	08/05/10	117	149	100	98	Pass	> UCL	Pass	Pass
CRHE-DPT0125-010.0	08/05/10	109	133	102	96	Pass	Pass	Pass	Pass
CRHE-DPT0125-018.0	08/05/10	119	151	100	96	Pass	> UCL	Pass	Pass
CRHE-DPT0125-028.0	08/05/10	118	145	99	101	Pass	> UCL	Pass	Pass
CRHE-DPT0125-033.0	08/05/10	116	150	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0125-038.0	08/05/10	118	146	99	94	Pass	> UCL	Pass	Pass
CRHE-DPT0125-043.0 1:20	08/05/10	117	144	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0125-048.0	08/05/10	117	149	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0126-010.0	08/05/10	78	98	97	99	< LCL	Pass	Pass	Pass
CRHE-DPT0126-018.0	08/05/10	117	150	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0126-028.0	08/05/10	119	145	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-033.0	08/05/10	121	150	100	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-038.0	08/05/10	116	148	100	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-043.0	08/05/10	118	150	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0126-010.0 MS	08/05/10	114	156	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0126-010.0 MSD	08/05/10	114	156	100	95	Pass	> UCL	Pass	Pass
CCS 20	08/05/10	114	158	100	93	Pass	> UCL	Pass	Pass
VSTD 20	08/06/10	104	131	102	99	Pass	Pass	Pass	Pass
LCS	08/06/10	108	136	100	98	Pass	> UCL	Pass	Pass
BLANK	08/06/10	114	130	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0126-048.0	08/06/10	113	129	100	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0126-048.0 MS	08/06/10	108	137	103	100	Pass	> UCL	Pass	Pass
CRHE-DPT0126-048.0 MSD	08/06/10	109	143	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0127-033.0	08/06/10	113	138	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0127-038.0	08/06/10	116	138	100	98	Pass	> UCL	Pass	Pass
CRHE-DPT0127-043.0 1:100	08/06/10	96	113	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0127-048.0 1:5	08/06/10	111	142	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0128-033.0	08/06/10	116	142	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0128-038.0	08/06/10	117	142	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0128-043.0	08/06/10	118	144	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0128-048.0	08/06/10	115	146	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0129-010.0	08/06/10	119	146	100	94	Pass	> UCL	Pass	Pass
CRHE-DPT0129-018.0	08/06/10	114	138	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0129-028.0	08/06/10	118	147	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0129-033.0	08/06/10	118	144	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0129-038.0	08/06/10	102	122	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0129-043.0 1:100	08/06/10	117	142	100	100	Pass	> UCL	Pass	Pass
CRHE-DPT0129-048.0 1:10	08/06/10	114	140	100	95	Pass	> UCL	Pass	Pass
CRHE-DPT0130-033.0	08/06/10	117	143	99	96	Pass	> UCL	Pass	Pass
CRHE-DPT0130-038.0	08/06/10	64	81	93	95	< LCL	Pass	Pass	Pass
CCS 20	08/06/10	112	154	100	95	Pass	> UCL	Pass	Pass
VSTD 20	08/09/10	108	124	103	98	Pass	Pass	Pass	Pass
BLANK	08/09/10	112	128	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0130-043.0	08/09/10	111	128	103	98	Pass	Pass	Pass	Pass
CRHE-DPT0130-048.0	08/09/10	111	127	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0130-038.0 1:20	08/09/10	114	138	101	98	Pass	> UCL	Pass	Pass
CRHE-DPT0130-043.0 1:10	08/09/10	113	134	103	97	Pass	> UCL	Pass	Pass
CRHE-DPT0131-033.0 1:20	08/09/10	112	137	102	98	Pass	> UCL	Pass	Pass
CRHE-DPT0131-038.0 1:50	08/09/10	115	134	102	96	Pass	> UCL	Pass	Pass
CRHE-DPT0131-043.0 1:50	08/09/10	114	138	102	95	Pass	> UCL	Pass	Pass
CRHE-DPT0131-048.0 1:100	08/09/10	72	84	97	98	< LCL	Pass	Pass	Pass
CRHE-IDW178747-20100806	08/09/10	116	146	101	97	Pass	> UCL	Pass	Pass
CRHE-DPT0132-010.0	08/09/10	85	103	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0132-018.0	08/09/10	120	150	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0132-024.0	08/09/10	121	148	101	96	Pass	> UCL	Pass	Pass
CRHE-DPT0132-033.0	08/09/10	116	150	102	93	Pass	> UCL	Pass	Pass
CRHE-DPT0132-038.0	08/09/10	118	147	100	97	Pass	> UCL	Pass	Pass
CRHE-DPT0132-043.0	08/09/10	118	146	101	94	Pass	> UCL	Pass	Pass
CRHE-DPT0132-048.0	08/09/10	120	152	99	94	Pass	> UCL	Pass	Pass
LCS	08/09/10	112	147	101	95	Pass	> UCL	Pass	Pass
VSTD 1	08/09/10	116	119	102	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 5	08/09/10	109	120	99	95	Pass	Pass	Pass	Pass
VSTD 10	08/09/10	80	110	98	98	< LCL	Pass	Pass	Pass
CRHE-DPT0133-010.0	08/09/10	109	114	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0133-014.0	08/09/10	106	110	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0133-018.0 1:20	08/09/10	116	131	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0133-023.0 1:500	08/09/10	114	131	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0133-028.0 1:200	08/09/10	114	132	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0133-033.0 1:20	08/09/10	114	131	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0133-038.0 1:50	08/09/10	110	129	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0133-043.0	08/09/10	110	126	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0133-048.0	08/09/10	108	124	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0134-010.0	08/09/10	108	118	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0134-014.0	08/09/10	112	120	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0134-018.0	08/09/10	109	117	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0134-023.0	08/09/10	104	116	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0132-048.0 MS	08/09/10	100	119	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0132-048.0 MSD	08/09/10	109	127	104	99	Pass	Pass	Pass	Pass
CCS 20	08/09/10	100	120	101	99	Pass	Pass	Pass	Pass
VSTD 20	08/10/10	91	100	101	103	Pass	Pass	Pass	Pass
LCS 20	08/10/10	99	110	104	101	Pass	Pass	Pass	Pass
BLANK	08/10/10	104	108	104	101	Pass	Pass	Pass	Pass
CRHE-DPT0134-028.0	08/10/10	106	112	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0134-033.0 1:20	08/10/10	107	115	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0134-038.0 1:5000	08/10/10	105	114	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0134-043.0 1:50	08/10/10	110	119	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0134-048.0	08/10/10	107	115	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0135-010.0	08/10/10	108	116	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0135-018.0	08/10/10	110	115	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0135-028.0	08/10/10	103	113	102	99	Pass	Pass	Pass	Pass
CRHE-DPT0135-033.0	08/10/10	106	112	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0135-038.0	08/10/10	107	114	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0135-043.0	08/10/10	105	116	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0135-048.0	08/10/10	109	116	101	99	Pass	Pass	Pass	Pass
CRHE-DPT0135-038.0 1:20	08/10/10	109	120	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0136-033.0	08/10/10	108	116	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0136-038.0	08/10/10	110	119	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0136-043.0	08/10/10	101	111	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0136-048.0 1:20	08/10/10	109	120	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0136-063.0	08/10/10	107	125	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0137-033.0	08/10/10	100	110	98	98	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0137-038.0	08/10/10	108	120	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0137-043.0	08/10/10	112	124	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0137-048.0	08/10/10	110	122	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0131-063.0	08/10/10	112	124	100	99	Pass	Pass	Pass	Pass
CRHE-IDW178748-20100810 1:5	08/10/10	111	124	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0137-033.0 MS	08/10/10	103	126	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0137-033.0 MSD	08/10/10	103	128	99	95	Pass	Pass	Pass	Pass
CCS 20	08/10/10	105	129	100	96	Pass	Pass	Pass	Pass
VSTD 20	08/11/10	92	102	101	104	Pass	Pass	Pass	Pass
LCS	08/11/10	96	106	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0137-043.0 MS	08/11/10	103	117	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0137-043.0 MSD	08/11/10	103	120	99	99	Pass	Pass	Pass	Pass
BLANK	08/11/10	108	117	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0138-010.0	08/11/10	109	116	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0138-018.0	08/11/10	109	120	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0138-028.0	08/11/10	109	117	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0138-033.0	08/11/10	108	116	100	97	Pass	Pass	Pass	Pass
CRHE-DPT0138-038.0	08/11/10	113	127	97	96	Pass	Pass	Pass	Pass
CRHE-DPT0138-043.0	08/11/10	111	122	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0138-048.0	08/11/10	110	120	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-010.0	08/11/10	98	108	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-018.0	08/11/10	112	121	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-033.0	08/11/10	86	94	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-038.0 1:10	08/11/10	113	125	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-043.0 1:100	08/11/10	115	128	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0139-048.0 1:200	08/11/10	116	128	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0139-028.0	08/11/10	114	124	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0140-010.0	08/11/10	97	108	94	97	Pass	Pass	Pass	Pass
CRHE-DPT0140-014.0	08/11/10	113	125	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0140-018.0	08/11/10	113	123	96	93	Pass	Pass	Pass	Pass
CRHE-DPT0140-023.0	08/11/10	112	123	95	93	Pass	Pass	Pass	Pass
CRHE-DPT0140-028.0	08/11/10	115	126	95	93	Pass	Pass	Pass	Pass
CRHE-DPT0140-033.0	08/11/10	118	123	95	95	Pass	Pass	Pass	Pass
CCS 20	08/11/10	100	110	97	91	Pass	Pass	Pass	Pass
VSTD 20	08/12/10	109	120	98	95	Pass	Pass	Pass	Pass
BLANK	08/12/10	109	102	101	95	Pass	Pass	Pass	Pass
CRHE-DPT0140-038.0	08/12/10	116	118	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0140-043.0	08/12/10	113	117	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0140-048.0	08/12/10	113	120	99	95	Pass	Pass	Pass	Pass
CRHE-IDW183401-20100811 1:5	08/12/10	104	99	103	92	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-169
On-site Dates: 8/2/10-8/6/10, 8/9/10-8/12/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0140-038.0 MS	08/12/10	99	113	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0140-038.0 MSD	08/12/10	98	111	99	95	Pass	Pass	Pass	Pass
LCS	08/12/10	107	119	100	94	Pass	Pass	Pass	Pass
CCS 20	08/12/10	103	107	101	95	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data. 1,2-DCAD4 surrogate recovery drifted high during the day but would return to acceptable criteria for initial and daily CCS. Results were not affected as LCS and MS/MSD recoveries were in control even when 12DCAD4 recoveries were high.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0121-023.0 **Date of Analysis:** 8/4/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	97	98	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	107	106	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	111	111	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	127	129	1	Pass	Pass	Pass
Trichloroethene	60	127	20	105	106	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	106	107	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0122-010.0 **Date of Analysis:** 8/4/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	96	97	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	102	105	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	113	111	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	122	123	1	Pass	Pass	Pass
Trichloroethene	60	127	20	104	104	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	102	108	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0123-038.0 **Date of Analysis:** 8/4/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	95	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	107	105	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	111	109	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	125	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	101	99	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	103	99	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0126-010.0 **Date of Analysis:** 8/5/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	85	90	6	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	91	92	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	93	95	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	118	126	6	Pass	Pass	Pass
Trichloroethene	60	127	20	96	102	6	Pass	Pass	Pass
Tetrachloroethene	50	132	20	95	100	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0126-048.0 **Date of Analysis:** 8/6/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	91	7	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	109	102	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	111	103	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	124	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	104	99	5	Pass	Pass	Pass
Tetrachloroethene	50	132	20	103	98	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0132-048.0 **Date of Analysis:** 8/9/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	95	85	10	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	103	87	17	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	110	110	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	106	104	2	Pass	Pass	Pass
Trichloroethene	60	127	20	103	81	23	Pass	Pass	> RPDL
Tetrachloroethene	50	132	20	105	79	28	Pass	Pass	> RPDL

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0137-033.0 **Date of Analysis:** 8/10/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	100	92	8	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	103	102	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	109	104	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	114	111	2	Pass	Pass	Pass
Trichloroethene	60	127	20	106	106	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	104	107	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0137-043.0 **Date of Analysis:** 8/10/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	102	102	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	110	110	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	115	118	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	115	115	1	Pass	Pass	Pass
Trichloroethene	60	127	20	106	106	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	107	108	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0140-038.0 **Date of Analysis:** 8/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	89	86	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	98	95	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	98	93	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	108	98	9	Pass	Pass	Pass
Trichloroethene	60	127	20	103	101	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	105	103	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-169
Onsite Dates: 8/2/10-8/12/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 8/2/2010
LCS 2 — 8/3/2010
LCS 3 — 8/4/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	52	to	150	87	103	114	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	89	115	124	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	94	123	125	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	107	132	132	Pass	> UCL	> UCL
Trichloroethene	68	to	119	98	110	110	Pass	Pass	Pass
Tetrachloroethene	58	to	127	109	105	114	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 8/5/2010
LCS 5 — 8/6/2010
LCS 6 — 8/9/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	52	to	150	103	104	89	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	113	117	96	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	114	117	99	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	126	129	121	Pass	> UCL	Pass
Trichloroethene	68	to	119	103	107	102	Pass	Pass	Pass
Tetrachloroethene	58	to	127	103	104	103	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 8/10/2010
LCS 8 — 8/11/2010
LCS 9 — 8/12/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	52	to	150	103	103	93	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	109	113	102	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	113	113	107	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	109	110	111	Pass	Pass	Pass
Trichloroethene	68	to	119	102	103	101	Pass	Pass	Pass
Tetrachloroethene	58	to	127	110	111	109	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

SampleI ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0116-010.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0116-018.0-20100802	8/2/10	Water	100	<21 I	<100	<100	<28 I	<26 I	<18 I
CRHE-DPT0116-028.0-20100802	8/2/10	Water	100	<21 I	<100	<100	<28 I	<26 I	<18 I
CRHE-DPT0116-033.0-20100802	8/2/10	Water	50	<11 I	<50	<50	<14 I	<13 I	<9 I
CRHE-DPT0116-038.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0116-043.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0116-048.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-010.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-018.0-20100802	8/2/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-028.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-033.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-038.0-20100802	8/3/10	Water	20	<6.4 I	<20	<20	<8.0 I	<6.6 I	<11 I
CRHE-DPT0117-043.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0117-048.0-20100802	8/3/10	Water	1	**4.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-010.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-018.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0
CRHE-DPT0118-028.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-033.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-038.0-20100802	8/3/10	Water	5	<1.6 I	< 5.0	< 5.0	<2.0 I	<1.7 I	<2.6 I
CRHE-DPT0118-043.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0118-048.0-20100802	8/3/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-010.0-20100803	8/3/10	Water	1	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-014.0-20100803	8/3/10	Water	1	**3.4**	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0
CRHE-DPT0119-018.0-20100803	8/3/10	Water	1	**4.9**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0119-023.0-20100803	8/3/10	Water	1	**12.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-028.0-20100803	8/3/10	Water	1	**37.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-033.0-20100803	8/3/10	Water	1,5	**180**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-038.0-20100803	8/3/10	Water	1	**8.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0119-043.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0119-048.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0120-010.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0120-014.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0120-018.0-20100803	8/3/10	Water	10	**400**	<10	<10	**170**	<3.3 I	<5.2 I
CRHE-DPT0120-023.0-20100803	8/3/10	Water	100	**4100**	<100	**230**	**9300**	<33 I	<52 I
CRHE-DPT0120-028.0-20100803	8/3/10	Water	2	**190**	<2.0	<2.0	**20**	< 1.0 I	<1.1 I
CRHE-DPT0120-033.0-20100803	8/3/10	Water	1	**1.5**	< 1.0	< 1.0	**3.9**	< 1.0	< 1.0
CRHE-DPT0120-038.0-20100803	8/3/10	Water	1	**1.8**	< 1.0	< 1.0	**12.1**	< 1.0	< 1.0
CRHE-DPT0120-043.0-20100803	8/3/10	Water	1	**3.0**	< 1.0	< 1.0	**14.0**	< 1.0	< 1.0
CRHE-DPT0120-048.0-20100803	8/3/10	Water	1	**5.6**	< 1.0	< 1.0	**29.0**	< 1.0	< 1.0
CRHE-DPT0121-010.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-014.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-018.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-023.0-20100803	8/3/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-028.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-033.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0121-038.0-20100804	8/4/10	Water	100	**4900**	<100	<100	**6400**	<33 I	<52 I
CRHE-DPT0121-043.0-20100804	8/4/10	Water	50	**1200**	<50	**66**	**4900**	**1700**	<26 I
CRHE-DPT0121-048.0-20100804	8/4/10	Water	1	**28.0**	< 1.0	< 1.0	**72.6**	**8.3**	< 1.0
CRHE-DPT0122-010.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0122-014.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-018.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-023.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-028.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-033.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0122-038.0-20100804	8/4/10	Water	100	**2900**	<100	<100	**6400**	**120**	<52 I
CRHE-DPT0122-043.0-20100804	8/4/10	Water	100	**1600**	<100	**110**	**6800**	**2700**	<52 I
CRHE-DPT0122-048.0-20100804	8/4/10	Water	1	**2.6**	< 1.0	< 1.0	**14.5**	**3.1**	< 1.0
CRHE-DPT0123-010.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0123-014.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-018.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-023.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-028.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-033.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-038.0-20100804	8/4/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-043.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0123-048.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0124-010.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0124-014.0-20100805	8/5/10	Water	1	**37.8**	< 1.0	**1.9**	**87.2**	< 1.0	< 1.0
CRHE-DPT0124-018.0-20100805	8/5/10	Water	1,100	**560**	< 1.0	**6.6**	**3600**	< 1.0	< 1.0
CRHE-DPT0124-023.0-20100805	8/5/10	Water	50	**3000**	<50	<50	**4500**	<17 I	<26 I
CRHE-DPT0124-028.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	**2.9**	< 1.0	< 1.0
CRHE-DPT0124-033.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0
CRHE-DPT0124-038.0-20100805	8/5/10	Water	5	**290**	<5.0	**8.5**	**360**	<1.7 I	<2.6 I
CRHE-DPT0124-043.0-20100805	8/5/10	Water	1	**1.2**	< 1.0	< 1.0	**2.2**	< 1.0	< 1.0
CRHE-DPT0124-048.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-010.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-018.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-028.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-033.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-038.0-20100805	8/5/10	Water	1	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0125-043.0-20100805	8/5/10	Water	20	**1700**	<20	**24**	**1300**	<6.6 I	<11 I
CRHE-DPT0125-048.0-20100805	8/5/10	Water	1	**35.8**	< 1.0	**1.7**	**7.0**	< 1.0	< 1.0
CRHE-DPT0126-010.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-018.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	**2.1**	< 1.0	< 1.0
CRHE-DPT0126-028.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-033.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-038.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0126-043.0-20100805	8/5/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0126-048.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0127-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0127-038.0-20100806	8/6/10	Water	1	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0127-043.0-20100806	8/6/10	Water	100	**320**	<100	**120**	**2700**	**2400**	<52 I
CRHE-DPT0127-048.0-20100806	8/6/10	Water	5	**15**	<5.0	**6.2**	**210**	**66**	<2.6 I
CRHE-DPT0128-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0128-038.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0128-043.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0128-048.0-20100806	8/6/10	Water	1	**3.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-010.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-018.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-028.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-038.0-20100806	8/6/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0129-043.0-20100806	8/6/10	Water	100	**3000**	<100	**110**	**5900**	<33 I	<52 I
CRHE-DPT0129-048.0-20100806	8/6/10	Water	10	**250**	<10	**22**	**790**	**110**	<5.2 I
CRHE-DPT0130-033.0-20100806	8/6/10	Water	1	<1.0	< 1.0	**1.4**	**1.4**	< 1.0	< 1.0
CRHE-DPT0130-038.0-20100806	8/6/10	Water	1,20	**770**	< 1.0	**10.5**	< 1.0	< 1.0	< 1.0
CRHE-DPT0130-043.0-20100806	8/9/10	Water	1,10	**170**	< 1.0	**3.6**	**1.6**	< 1.0	< 1.0
CRHE-DPT0130-048.0-20100806	8/9/10	Water	1	**3.6**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0
CRHE-DPT0131-033.0-20100809	8/9/10	Water	20	**1600**	<20	**65**	**940**	<6.6 I	<11 I
CRHE-DPT0131-038.0-20100809	8/9/10	Water	50	**760**	<50	**71**	**2200**	<17 I	<26 I
CRHE-DPT0131-043.0-20100809	8/9/10	Water	50	**320**	<50	**84**	**3000**	**220**	<26 I
CRHE-DPT0131-048.0-20100809	8/9/10	Water	100	**370**	<100	<100	**2200**	**630**	<52 I
CRHE-DPT0132-010.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0
CRHE-DPT0132-018.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-024.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-033.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0132-038.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-043.0-20100809	8/9/10	Water	1	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0132-048.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0133-010.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**
CRHE-DPT0133-014.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0133-018.0-20100809	8/9/10	Water	20	**400**	<20	**13 I**	**710**	<6.6 I	<11 I
CRHE-DPT0133-023.0-20100809	8/9/10	Water	500	**1700**	<500	**610**	**27000**	<170 I	<260 I
CRHE-DPT0133-028.0-20100809	8/9/10	Water	200	**910**	<200	**210**	**15000**	<66 I	<110 I
CRHE-DPT0133-033.0-20100809	8/9/10	Water	20	**580**	<20	**15 I**	**1100**	<6.6 I	<11 I
CRHE-DPT0133-038.0-20100809	8/9/10	Water	50	**790**	<50	**38 I**	**2800**	**50**	<26 I
CRHE-DPT0133-043.0-20100809	8/9/10	Water	1	**4.0**	< 1.0	< 1.0	**12.9**	< 1.0	< 1.0
CRHE-DPT0133-048.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	**3.7**	< 1.0	< 1.0
CRHE-DPT0134-010.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-014.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-018.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-023.0-20100809	8/9/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-028.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0134-033.0-20100810	8/10/10	Water	20	**200**	<20	**73**	**500**	**94**	<11 I
CRHE-DPT0134-038.0-20100810	8/10/10	Water	5000	**4200 I**	<5000	<5000	**39000**	**100000**	<2600 I
CRHE-DPT0134-043.0-20100810	8/10/10	Water	50	**200**	<50	**43 I**	**1500**	**1500**	<26 I
CRHE-DPT0134-048.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	**12.5**	**46.4**	< 1.0
CRHE-DPT0135-010.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-018.0-20100810	8/10/10	Water	1	**7.8**	< 1.0	< 1.0	**3.0**	< 1.0	< 1.0
CRHE-DPT0135-028.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-033.0-20100810	8/10/10	Water	1	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-038.0-20100810	8/10/10	Water	1,20	**2500 L**	< 1.0	**73.6**	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-043.0-20100810	8/10/10	Water	1	**72.4**	< 1.0	**3.5**	< 1.0	< 1.0	< 1.0
CRHE-DPT0135-048.0-20100810	8/10/10	Water	1	**3.7**	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0
CRHE-DPT0136-033.0-20100810	8/10/10	Water	1	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0136-038.0-20100810	8/10/10	Water	1	**5.8**	< 1.0	< 1.0	**1.8**	< 1.0	< 1.0
CRHE-DPT0136-043.0-20100810	8/10/10	Water	1	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0136-048.0-20100810	8/10/10	Water	20	**78**	<20	**31**	**930**	**110**	<11 I
CRHE-DPT0136-063.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-033.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-038.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-043.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0137-048.0-20100810	8/10/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0131-063.0-20100810	8/10/10	Water	1	**2.5**	< 1.0	< 1.0	**14.6**	**1.9**	< 1.0
CRHE-DPT0138-010.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-018.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-028.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-033.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-038.0-20100811	8/11/10	Water	1	**4.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0138-043.0-20100811	8/11/10	Water	1	**41.8**	< 1.0	< 1.0	**2.4**	< 1.0	< 1.0
CRHE-DPT0138-048.0-20100811	8/11/10	Water	1	**9.2**	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0
CRHE-DPT0139-010.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-018.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-028.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-033.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0139-038.0-20100811	8/11/10	Water	10	**850**	<10	**34**	**600**	<3.3 I	<5.2 I
CRHE-DPT0139-043.0-20100811	8/11/10	Water	100	**1700**	<100	**190**	**7200**	**500**	<52 I
CRHE-DPT0139-048.0-20100811	8/11/10	Water	200	**910**	<200	**180 I**	**6100**	**3400**	<110 I
CRHE-DPT0140-010.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-014.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-018.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-023.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-028.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-033.0-20100811	8/11/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0140-038.0-20100811	8/12/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-043.0-20100811	8/12/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CRHE-DPT0140-048.0-20100811	8/12/10	Water	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

KB LABS, INC.

Final Data Report

Project Number : 10-169

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW178747-20100806	8/9/10	Water	1	**44**	< 1.0	**1.2**	**140 L**	**6.3**	< 1.0
CRHE-IDW178748-20100810	8/10/10	Water	5	**23**	<5.0	**3.3 I**	**200**	**10**	<2.6 I
CRHE-IDW183401-20100811	8/12/10	Water	5	**7.5**	<5.0	**1.9 I**	**100**	**66**	<2.6 I

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1603

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CHRE NASA KSC

SAMPLERS: GeoSyntec

CONTACT PERSON: Jan Burton / Joy McKinnon

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
DPT0116-010.0-20100702		0915		✓	8/2/10	0915		W	2	✓	
016.0		0930				1040					
028.0		0950				↓					
033.0		1010									
038.0		1030									
043.0		1655				1125					
048.0	1115	~~1055~~				↓					
DPT0117-010.0		1145				1205					
018.0		1158				↓					
028.0		1300				1440					
033.0		1320				↓					
038.0		1345									
043.0		1408									
048.0		1430				↓					
DPT0118-010.0		1505				1600					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			8/2/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K 103

CLIENT NAME: GeosynTec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS:

CONTACT PERSON: Jen Barfus

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHR3											
CHR3-018.0-20100802		1520			8/2/10	1600					
-028.0		1537				↓					
033.0		1553				1710					
038.0		1617									
043.0		1637									
048.0		1700									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		[signature]	8/2/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K03

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC

SAMPLERS

CONTACT PERSON: ~~Jan Barfus~~

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0119-010.0-20100803		0830		✓	8/3/10	0910		W	2	✓	
014.0		0843				↓					
018.0		0857									
023.0		0915				1005					
028.0		0935				↓					
033.0		0953									
038.0		1013				1110					
043.0		1035				↓					
048.0		1100									
OPT0120-010.0		1253				1325					
014.0		1305				↓					
018.0		1320									
023.0		1335				1420					
028.0		1357									
033.0		1415				↓					

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
	8/3/10			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			8/3/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K 83

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE KSC

SAMPLERS:

CONTACT PERSON: Joey

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
MOTO120-035.0-20100803		1437		✓	8/3/10	1030					
-043.0		1500				↓					
-048.0		1523				↓					
MOTO121-010.0		1608				1715					
014.0		1625				↓					
018.0		1640				↓					
023.0		1658				↓					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/3/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K63

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CHRE
SAMPLERS	CONTACT PERSON: Joey
	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
DPT0121-028.0-20100804		0757		✓	8/4/10	0830		W	2	✓	
033.0		0817				↓					
038.0		0837				0930					
043.0		0857				↓					
048.0		0920									
DPT0122-010.0		1005				1035					
014.0		1020				↓					
018.0		1030									
023.0		1047				1130					
028.0		1105				↓					
033.0		1123									
038.0		1140				1235					
043.0		1205				↓					
048.0		1228									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
		[signature]	8/4/10	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1483

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS:

CONTACT PERSON: Joey

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0123-010.0-20100804		1510		✓	8/4/10	1555					
014.0		1523				"					
018.0		1545				"					
023.0		1605				1715					
028.0		1623				"					
033.0		1640				"					
038.0		1700				"					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 8/4/10	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/4/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1453

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS

CONTACT PERSON: JBey

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE											
OPT0123-043.0-20100805		0745			8/5/10	0845		W	2	✓	
048.0		0807				↓					
OPT0124-010.0		0910				1000					
-014.0		0935				↓					
018.0		0947									
023.0		1000				1040					
028.0		1017				↓					
033.0		1033									
038.0		1050				~~102~~ 1125					
043.0		1105				↓					
048.0		1111									
OPT025-010.0		1205				1205					
018.0		1255				1340					
023.0		1335				↓					
028.0		1347									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/5/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 433

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CMRE
SAMPLERS	**CONTACT PERSON**
	JDay

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CMRE											
OPT012S-0350-20180105		1400		✓	8/1/18	1455		W	2	✓	
043.0		1422				J					
048.0		1445				J					
OPT0126-010.0		1540				1620					
-018.0		1555				J					
-028.0		1610				J					
-038.0		1630				1700					
038.0		1645				J					
043.0		1715				1720					

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1CB3

CLIENT NAME	PROJECT NAME & ADDRESS	BATCH # (Lab Use Only)
GeoSyntec	CHRE	

SAMPLERS

CONTACT PERSON: Tony

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE MW-26											
OPT0126-048.0-20100506		0738		✓	5/6/10	0755		W	2	✓	
OPT0127-033.0	0825	~~0845~~				0900					
038.0		~~0845~~ 0845				↓					
043.0		0905				0930					
048.0		0925				↓					
OPT0128-033.0		1007				1040					
038.0		1030				↓					
043.0		1050				1152					
048.0		1110				↓					
OPT0129-010.0		1155				1215					
018.0		1210				↓					
028.0		1225				1255					
033.0		1246				↓					
038.0		1300				1415					
043.0		~~1345~~ 1320				↓					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
			4/6/10

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
GeoSyntec	CHRE
SAMPLERS	**CONTACT PERSON** / **BATCH # (Lab Use Only)**
	Joey

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CHRE CRHE~~											
DPT0129-048.0-20100806		~~1310~~ 1570		✓	8/6/10	1535		W	2	✓	
DPT0130 ~~033.0~~ 033.0		1542				1600					
FDW178747		1530				↓					
DPT0130-038.0		1605				~~1630~~ 1640					
043.0		1630				↓					
048.0		1650				1655					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/6/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1643

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CH2E IGSC

SAMPLERS: CH2E MW

CONTACT PERSON: Jan Barnes

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CH2E~~											
OPTO131-033.0-20100809	8/9	0835		✓	8/9/10	0840		W	2	✓	
038.0		0857				0905					
043.0		0916				0950					
048.0		0944				↓					
OPTO132-010.0		1021				1050					
018.0		1030				↓					
024.0		1042				↓					
033.0		~~1115~~ 1058				1120					
038.0		1115				↓					
043.0		1135				1205					
048.0		1150				↓					
OPTO133-010.0		1352				1420					
014.0		1401				↓					
018.0		1418									
023.0		1422				1500					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		[signature]	8/9/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K03

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHAE LSC

SAMPLERS:

CONTACT PERSON: Jan Bartas

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID / NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
~~CHAE~~ ~~MW~~											
OBTO13-028.0-20100809				✓	8/9/10	1500		GW	2	✓	
033.2		1449				"					
038.0		1507				1505					
043.0		1526				↓					
048.0		1543									
OBTO14-010.0		1653				1715					
015.0		1701				↓					
018.0		1710									
023.0		1722				1730					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/9/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1463

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE

SAMPLERS:

CONTACT PERSON: Jan Barfus

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CHRE MW											
DPT0134-028.0-20100810		0743		✓	8/10/10	0805		W	2	✓	
033.0		0757				↓					
038.0		0813				0840					
043.0		0831				↓					
048.0		0850				0945					
DPT0135-010.0		0928				↓					
015.0		0957				1010					
028.0		1000				↓					
033.0		1013				1045					
038.0		1039				↓					
043.0		1052				1135					
048.0		1112				↓					
DPT0136-033.0		1146				1205					
-038.0		1200				↓					
-043.0		1310				1405					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			8/10/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # 1483

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE

SAMPLERS

CONTACT PERSON: Jan Burgess

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
CRTE											
DPT0136-041.0-20100810		1330		✓	1405			W	2	✓	
063.0		1336			↓						
DPT0137-033.0		1456			1520						
-038.0		1516			↓						
043.0		1559			1620						
048.0		1605			↓						
DPT0131-063.0		1630			1640						
EDW178748		1620			1650						

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRITE
SAMPLERS	**CONTACT PERSON**
	Jan Barfus

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRITE											
DPT0138-010.0-20100811	~~0801~~	0801		✓	8/11/10	0820		W	2	✓	
018.0	~~0812~~	0812				↓					
028.0		0830				0850					
033.0		0846				↓					
038.0		0905				0955					
043.0		0925				↓					
048.0		0946				↓					
DPT0139-010.0		1024				1055					
018.0		1034				↓					
028.0		1046				↓					
033.0		1100				1125					
038.0		1118				↓					
043.0		1138				1210					
048.0		1202				↓					
DPT0140-010.0		1416				1430					

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
	8/11/10			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			8/11/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT # 163

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE

SAMPLERS:

CONTACT PERSON: Jan Barfus

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE											
DPT0140-014.0-20100811		~~1427~~ 1427	✓		8/11/10	1430		W	2	✓	
018.0		1435				1437					
023.0		1443				✓					
028.0		1456				1515					
033.0		1508				✓					
038.0		1522				1600					
043.0		1534				✓					
048.0		1550				✓					
IDW 183401		1630				1640					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)		Received by: (Signature)	Date / Time 8/11/10	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
Newberry, Florida 32669

***Telephone* (352) 472-5830**
***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

October 21, 2010

Jill Johnson
GeoSyntec Consultants
9511 Holsberry Lane, Suite C
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 10-184

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from October 11 to 14, and 18, 2010. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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Newberry, FL 32669
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Fax: 352-472-5832
Email: info@kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From October 11 to 14, and 18, 2010, a total of 107 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0

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ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Changes for sample ID CRHE-DPT0145-043.0-20101012 reported:
   t-1,2-dichloroethene <1.0 changed to 1.6ug/L.
   c-1,2-dichloroethene 1.6 changed to <1.0ug/L.

3. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data qualifier "I". Some results were changed from the Field Report to the Final Report to reflect this requirement.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	10/11/10	107	111	100	95	Pass	Pass	Pass	Pass
LCS	10/11/10	105	110	101	96	Pass	Pass	Pass	Pass
BLANK	10/11/10	112	112	100	91	Pass	Pass	Pass	Pass
CRHE-DPT0141-010.0	10/11/10	111	108	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0141-018.0	10/11/10	113	110	100	87	Pass	Pass	Pass	Pass
CRHE-DPT0141-028.0	10/11/10	114	111	101	88	Pass	Pass	Pass	Pass
CRHE-DPT0141-033.0	10/11/10	114	108	99	89	Pass	Pass	Pass	Pass
CRHE-DPT0141-038.0	10/11/10	112	116	100	86	Pass	Pass	Pass	Pass
CRHE-DPT0141-043.0	10/11/10	117	114	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0141-048.0	10/11/10	116	116	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0142-010.0	10/11/10	117	117	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0142-018.0	10/11/10	117	120	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0142-028.0	10/11/10	118	118	98	89	Pass	Pass	Pass	Pass
CRHE-DPT0142-033.0	10/11/10	115	120	98	90	Pass	Pass	Pass	Pass
CRHE-DPT0142-038.0	10/11/10	118	122	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0142-043.0	10/11/10	119	123	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0142-048.0	10/11/10	121	120	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0143-028.0	10/11/10	111	114	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0143-033.0	10/11/10	113	112	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0143-038.0	10/11/10	114	116	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0143-043.0	10/11/10	117	118	99	86	Pass	Pass	Pass	Pass
CRHE-DPT0143-048.0	10/11/10	117	120	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0144-010.0	10/11/10	116	114	99	89	Pass	Pass	Pass	Pass
CRHE-DPT0141-010.0 MS	10/11/10	110	124	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0141-010.0 MSD	10/11/10	111	108	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0143-028.0 MS	10/11/10	111	118	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0143-028.0 MSD	10/11/10	109	115	101	93	Pass	Pass	Pass	Pass
VSTD 20	10/11/10	110	119	99	94	Pass	Pass	Pass	Pass
VSTD 20	10/12/10	105	112	100	94	Pass	Pass	Pass	Pass
LCS	10/12/10	110	111	100	95	Pass	Pass	Pass	Pass
BLANK	10/12/10	114	110	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0144-018.0	10/12/10	113	107	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0144-028.0	10/12/10	113	105	101	92	Pass	Pass	Pass	Pass
CRHE-DPT0144-033.0	10/12/10	108	104	102	91	Pass	Pass	Pass	Pass
CRHE-DPT0144-038.0	10/12/10	111	107	100	91	Pass	Pass	Pass	Pass
CRHE-DPT0144-043.0	10/12/10	111	106	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0144-048.0	10/12/10	110	104	102	90	Pass	Pass	Pass	Pass
CRHE-DPT0144-018.0 MS	10/12/10	107	112	101	98	Pass	Pass	Pass	Pass
CRHE-DPT0144-018.0 MSD	10/12/10	106	109	102	94	Pass	Pass	Pass	Pass
CRHE-DPT0144-053.0	10/12/10	117	110	101	91	Pass	Pass	Pass	Pass
CRHE-DPT0144-063.0	10/12/10	116	112	100	89	Pass	Pass	Pass	Pass
CRHE-DPT0145-010.0	10/12/10	116	112	101	89	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0145-018.0	10/12/10	114	108	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0145-028.0	10/12/10	117	110	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0144-063.0 MS	10/12/10	112	123	99	92	Pass	Pass	Pass	Pass
CRHE-DPT0144-063.0 MSD	10/12/10	114	122	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0145-033.0	10/12/10	118	120	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0145-038.0	10/12/10	118	116	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0145-043.0	10/12/10	117	120	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0145-048.0	10/12/10	120	121	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0145-053.0	10/12/10	121	121	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0145-063.0	10/12/10	120	123	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0145-048.0 1:5	10/12/10	119	121	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0139-053.0 1:50	10/12/10	118	120	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0139-063.0	10/12/10	120	116	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0146-028.0	10/12/10	117	118	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0146-033.0	10/12/10	119	119	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0146-038.0	10/12/10	116	117	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0146-043.0 1:50	10/12/10	118	117	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0146-048.0	10/12/10	120	114	98	87	Pass	Pass	Pass	Pass
VSTD 20	10/12/10	111	116	98	93	Pass	Pass	Pass	Pass
VSTD 20	10/13/10	109	107	99	98	Pass	Pass	Pass	Pass
LCS	10/13/10	107	112	100	96	Pass	Pass	Pass	Pass
BLANK	10/13/10	113	109	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0139-063.0 MS	10/13/10	109	106	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0139-063.0 MSD	10/13/10	107	113	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0147-028.0	10/13/10	112	111	100	93	Pass	Pass	Pass	Pass
CRHE-DPT0147-033.0	10/13/10	115	111	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0147-038.0	10/13/10	116	111	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0147-043.0	10/13/10	116	111	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0147-048.0	10/13/10	114	110	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0147-028.0 MS	10/13/10	108	110	102	94	Pass	Pass	Pass	Pass
CRHE-DPT0147-028.0 MSD	10/13/10	109	115	100	93	Pass	Pass	Pass	Pass
CRHE-DPT0148-010.0	10/13/10	114	111	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-018.0	10/13/10	117	111	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-028.0	10/13/10	118	114	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-033.0	10/13/10	119	114	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-038.0	10/13/10	119	116	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-043.0	10/13/10	118	114	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0148-048.0 1:20	10/13/10	118	121	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0148-043.0 1:10	10/13/10	117	118	96	86	Pass	Pass	Pass	Pass
CRHE-DPT0149-010.0	10/13/10	122	121	97	89	> UCL	Pass	Pass	Pass
CRHE-DPT0149-018.0	10/13/10	120	120	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0149-028.0	10/13/10	120	121	95	86	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0149-033.0	10/13/10	119	122	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0149-038.0	10/13/10	120	122	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0149-043.0	10/13/10	122	124	95	86	> UCL	Pass	Pass	Pass
CRHE-DPT0149-033.0 1:100	10/13/10	124	124	94	88	> UCL	Pass	Pass	Pass
CRHE-DPT0149-043.0 1:10	10/13/10	126	125	97	87	> UCL	Pass	Pass	Pass
CRHE-DPT0149-048.0	10/13/10	117	121	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0150-028.0	10/13/10	118	120	96	88	Pass	Pass	Pass	Pass
VSTD 20	10/13/10	114	124	98	93	Pass	Pass	Pass	Pass
VSTD 20	10/14/10	105	109	100	96	Pass	Pass	Pass	Pass
LCS	10/14/10	107	112	102	98	Pass	Pass	Pass	Pass
BLANK	10/14/10	110	111	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0149-038 1:100	10/14/10	115	110	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0149-048.0 1:5	10/14/10	113	115	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0150-033.0	10/14/10	111	109	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0150-038.0	10/14/10	114	110	101	89	Pass	Pass	Pass	Pass
CRHE-DPT0150-043.0	10/14/10	114	109	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0150-048.0	10/14/10	111	109	100	91	Pass	Pass	Pass	Pass
CRHE-DPT0150-053.0	10/14/10	112	107	102	88	Pass	Pass	Pass	Pass
CRHE-DPT0150-063.0	10/14/10	115	112	101	91	Pass	Pass	Pass	Pass
CRHE-DPT0150-048.0 MS	10/14/10	107	113	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0150-048.0 MSD	10/14/10	109	118	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0151-028.0	10/14/10	114	112	102	92	Pass	Pass	Pass	Pass
CRHE-DPT0151-033.0	10/14/10	116	116	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0151-038.0 1:5	10/14/10	114	110	99	87	Pass	Pass	Pass	Pass
CRHE-DPT0151-043.0	10/14/10	114	117	99	87	Pass	Pass	Pass	Pass
CRHE-DPT0151-048.0	10/14/10	111	104	101	89	Pass	Pass	Pass	Pass
CRHE-DPT0151-053.0	10/14/10	118	118	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0151-063.0	10/14/10	117	112	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0152-010.0	10/14/10	113	113	99	87	Pass	Pass	Pass	Pass
CRHE-DPT0152-018.0	10/14/10	117	116	99	86	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 10-184
On-site Dates: 10/11/10-10/14/10, 10/18/10	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0152-028.0	10/14/10	114	112	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0152-033.0	10/14/10	120	116	98	84	Pass	Pass	Pass	Pass
CRHE-DPT0152-038.0	10/14/10	116	115	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0152-043.0 1:20	10/14/10	118	116	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0152-048.0	10/14/10	119	118	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0152-043.0 1:5	10/14/10	118	120	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0153-028.0	10/14/10	118	123	97	89	Pass	Pass	Pass	Pass
VSTD 20	10/14/10	113	124	97	90	Pass	Pass	Pass	Pass
VSTD 20	10/18/10	105	110	98	94	Pass	Pass	Pass	Pass
BLANK	10/18/10	116	111	98	89	Pass	Pass	Pass	Pass
CRHE-DPT0153-033.0	10/18/10	113	107	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0153-038.0 1:10	10/18/10	114	110	98	90	Pass	Pass	Pass	Pass
CRHE-DPT0153-043.0	10/18/10	115	108	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0153-048.0 1:20	10/18/10	112	112	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0153-053.0	10/18/10	116	110	100	88	Pass	Pass	Pass	Pass
CRHE-DPT0153-063.0	10/18/10	114	112	98	88	Pass	Pass	Pass	Pass
CRHE-DPT0154-010.0	10/18/10	113	110	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0154-018.0	10/18/10	114	112	98	86	Pass	Pass	Pass	Pass
CRHE-DPT0154-028.0	10/18/10	117	114	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0154-033.0	10/18/10	116	113	98	85	Pass	Pass	Pass	Pass
CRHE-DPT0154-038.0	10/18/10	116	112	99	86	Pass	Pass	Pass	Pass
CRHE-DPT0154-043.0	10/18/10	119	112	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0154-048.0	10/18/10	121	115	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0155-010.0	10/18/10	114	108	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0155-018.0	10/18/10	117	111	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0155-028.0	10/18/10	119	115	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0155-033.0	10/18/10	114	112	97	86	Pass	Pass	Pass	Pass
CRHE-DPT0155-038.0	10/18/10	118	114	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0155-043.0	10/18/10	119	114	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0155-048.0	10/18/10	115	116	98	86	Pass	Pass	Pass	Pass
CRHE-IDW144955-20101015	10/18/10	115	117	96	85	Pass	Pass	Pass	Pass
CRHE-IDW144956-20101015 1:5	10/18/10	116	115	98	87	Pass	Pass	Pass	Pass
CRHE-DPT0155-038.0 1:5	10/18/10	117	112	98	85	Pass	Pass	Pass	Pass
CRHE-DPT0154-048.0 MS	10/18/10	110	116	97	89	Pass	Pass	Pass	Pass
CRHE-DPT0154-048.0 MSD	10/18/10	113	118	97	88	Pass	Pass	Pass	Pass
LCS	10/18/10	111	117	97	96	Pass	Pass	Pass	Pass
CCS	10/18/10	113	119	97	92	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-184
Onsite Dates: 10/11/10-10/14/10,10/18/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0141-010.0 **Date of Analysis:** 10/11/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	101	96	5	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	118	115	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	118	106	11	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	103	102	1	Pass	Pass	Pass
Trichloroethene	60	127	20	95	96	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	104	104	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0143-028.0 **Date of Analysis:** 10/11/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	103	104	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	121	123	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	112	112	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	104	104	0	Pass	Pass	Pass
Trichloroethene	60	127	20	96	99	3	Pass	Pass	Pass
Tetrachloroethene	50	132	20	109	111	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0144-018.0 **Date of Analysis:** 10/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	110	103	7	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	125	121	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	119	103	14	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	106	104	2	Pass	Pass	Pass
Trichloroethene	60	127	20	100	99	1	Pass	Pass	Pass
Tetrachloroethene	50	132	20	114	114	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0144-063.0 **Date of Analysis:** 10/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	105	102	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	121	122	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	102	100	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	83	89	7	Pass	Pass	Pass
Trichloroethene	60	127	20	102	102	0	Pass	Pass	Pass
Tetrachloroethene	50	132	20	112	113	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-184
Onsite Dates: 10/11/10-10/14/10,10/18/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0139-063.0 **Date of Analysis:** 10/12/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	112	104	7	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	134	124	8	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	106	101	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	112	104	8	Pass	Pass	Pass
Trichloroethene	60	127	20	103	97	6	Pass	Pass	Pass
Tetrachloroethene	50	132	20	115	110	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0147-028.0 **Date of Analysis:** 10/13/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	103	105	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	125	129	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	101	102	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	103	108	4	Pass	Pass	Pass
Trichloroethene	60	127	20	97	101	4	Pass	Pass	Pass
Tetrachloroethene	50	132	20	111	113	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0150-048.0 **Date of Analysis:** 10/14/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	107	104	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	134	126	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	130	101	25	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	62	141	20	107	106	1	Pass	Pass	Pass
Trichloroethene	60	127	20	101	100	1	Pass	Pass	Pass
Tetrachloroethene	50	132	20	119	111	7	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0154-048.0 **Date of Analysis:** 10/18/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	99	1	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	108	122	13	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	104	105	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	99	102	3	Pass	Pass	Pass
Trichloroethene	60	127	20	94	95	1	Pass	Pass	Pass
Tetrachloroethene	50	132	20	106	108	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson, Brad Weichert
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 10-184
Onsite Dates: 10/11/10-10/14/10,10/18/10	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1, LCS 2, LCS 3 **Date of Analysis:** 10/11/2010, 10/12/2010, 10/13/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	52	to	150	101	91	97	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	133	121	127	> UCL	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	118	105	106	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	113	105	109	Pass	Pass	Pass
Trichloroethene	68	to	119	102	95	100	Pass	Pass	Pass
Tetrachloroethene	58	to	127	117	107	113	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4, LCS 5 **Date of Analysis:** 10/14/2010, 10/18/2010

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5		LCS#4	LCS#5	
Vinyl Chloride	52	to	150	100	97		Pass	Pass	
1,1-Dichloroethene	58	to	132	116	122		Pass	Pass	
Trans-1,2-Dichloroethene	54	to	140	105	106		Pass	Pass	
Cis-1,2-Dichloroethene	67	to	126	108	99		Pass	Pass	
Trichloroethene	68	to	119	101	94		Pass	Pass	
Tetrachloroethene	58	to	127	115	107		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0141-010.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-018.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-028.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-033.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-038.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-043.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0141-048.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-010.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-018.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-028.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-033.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-038.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-043.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0142-048.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-028.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0143-033.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-038.0-20101011	10/11/10	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-043.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0143-048.0-20101011	10/11/10	Water	1	**1.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-010.0-20101011	10/11/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-018.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-028.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-033.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-038.0-20101012	10/12/10	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-043.0-20101012	10/12/10	Water	1	**30.4**	<1.0	**1.4**	<1.0	<1.0	<1.0
CRHE-DPT0144-048.0-20101012	10/12/10	Water	1	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0144-053.0-20101012	10/12/10	Water	1	**2.0**	<1.0	<1.0	**3.4**	<1.0	<1.0
CRHE-DPT0144-063.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-010.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-018.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0145-028.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-033.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-038.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-043.0-20101012	10/12/10	Water	1	<1.0	<1.0	**1.6**	<1.0	<1.0	<1.0
CRHE-DPT0145-048.0-20101012	10/12/10	Water	1, 5	**150**	<1.0	**3.9**	**1.6**	<1.0	<1.0
CRHE-DPT0145-053.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0145-063.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0139-053.0-20101012	10/12/10	Water	50	**350**	<15 I	**88**	**1600**	**1200**	<26 I
CRHE-DPT0139-063.0-20101012	10/12/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0146-028.0-20101012	10/12/10	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0146-033.0-20101012	10/12/10	Water	1	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0146-038.0-20101012	10/12/10	Water	1	**18.4**	<1.0	**4.3**	**7.1**	<1.0	<1.0
CRHE-DPT0146-043.0-20101012	10/12/10	Water	50	**330**	<15 I	**100**	**1900**	**2500**	<26 I
CRHE-DPT0146-048.0-20101012	10/12/10	Water	1	**40.4**	<1.0	**3.0**	**55.4**	**1.8**	<1.0
CRHE-DPT0147-028.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0147-033.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0147-038.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0147-043.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0147-048.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-010.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-018.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-028.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-033.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-038.0-20101013	10/13/10	Water	1	<1.0	<1.0	**2.9**	<1.0	<1.0	<1.0
CRHE-DPT0148-043.0-20101013	10/13/10	Water	1, 10	**470**	<1.0	**7.6**	**8.6**	<1.0	<1.0
CRHE-DPT0148-048.0-20101013	10/13/10	Water	20	**720**	<6.0 I	**11 I**	**260**	<6.6 I	<10 I
CRHE-DPT0149-010.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0149-018.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0149-028.0-20101013	10/13/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0149-033.0-20101013	10/13/10	Water	1	**100**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0149-038.0-20101013	10/13/10	Water	1, 100	**2300**	<1.0	**10.9**	**3.8**	<1.0	<1.0
CRHE-DPT0149-043.0-20101013	10/13/10	Water	1, 10	**310**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0149-048.0-20101013	10/13/10	Water	1, 5	**130**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0150-028.0-20101013	10/13/10	Water	1	**2.9**	<1.0	<1.0	**7.9**	<1.0	<1.0
CRHE-DPT0150-033.0-20101014	10/14/10	Water	1	**11.3**	<1.0	<1.0	**20.1**	<1.0	<1.0
CRHE-DPT0150-038.0-20101014	10/14/10	Water	1	**15.2**	<1.0	<1.0	**14.4**	<1.0	<1.0
CRHE-DPT0150-043.0-20101014	10/14/10	Water	1	**22.6**	<1.0	<1.0	**21.5**	<1.0	<1.0
CRHE-DPT0150-048.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0150-053.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0150-063.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-028.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-033.0-20101014	10/14/10	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-038.0-20101014	10/14/10	Water	5	**280**	<1.5 I	**11**	**220**	**5.2**	<2.6 I
CRHE-DPT0151-043.0-20101014	10/14/10	Water	1	**30.4**	<1.0	<1.0	**6.7**	<1.0	<1.0
CRHE-DPT0151-048.0-20101014	10/14/10	Water	1	**37.3**	<1.0	**1.6**	**7.2**	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Sample ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0151-053.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0151-063.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-010.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-018.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-028.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-033.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-038.0-20101014	10/14/10	Water	1	**2.9**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0152-043.0-20101014	10/14/10	Water	5	**360**	<1.5 I	**17**	**300**	**4.0 I**	<2.6 I
CRHE-DPT0152-048.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0153-028.0-20101014	10/14/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0153-033.0-20101015	10/18/10	Water	1	**42.4**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0153-038.0-20101015	10/18/10	Water	10	**460**	<3.0 I	**8.6 I**	**86**	<3.3 I	<5.2 I
CRHE-DPT0153-043.0-20101015	10/18/10	Water	1	**28.5**	<1.0	**1.4**	**48.4**	**1.2**	<1.0
CRHE-DPT0153-048.0-20101015	10/18/10	Water	20	**170**	<6.0 I	**16 I**	**550**	<6.6 I	<10 I
CRHE-DPT0153-053.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-DPT0153-063.0-20101015	10/18/10	Water	1	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-010.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-018.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-028.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0154-033.0-20101015	10/18/10	Water	1	**1.2**	<1.0	<1.0	**6.5**	<1.0	<1.0
CRHE-DPT0154-038.0-20101015	10/18/10	Water	1	**3.3**	<1.0	<1.0	**6.4**	<1.0	<1.0
CRHE-DPT0154-043.0-20101015	10/18/10	Water	1	**21.6**	<1.0	<1.0	**2.7**	<1.0	<1.0
CRHE-DPT0154-048.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-010.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-018.0-20101015	10/18/10	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-028.0-20101015	10/18/10	Water	1	**9.8**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-033.0-20101015	10/18/10	Water	1	**42.3**	<1.0	<1.0	**2.5**	<1.0	<1.0
CRHE-DPT0155-038.0-20101015	10/18/10	Water	1,5	**110**	<1.0	<1.0	**12.0**	<1.0	<1.0
CRHE-DPT0155-043.0-20101015	10/18/10	Water	1	**79.4**	<1.0	<1.0	**1.4**	<1.0	<1.0
CRHE-DPT0155-048.0-20101015	10/18/10	Water	1	**12.0**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

Project Number : 10-184

NASA CRHE IDW

KSC, FL

Prepared for: GeoSyntec Consultants

Samplel ID	Analysis Date	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Water MDL (ug/L)				**0.32**	**0.30**	**0.37**	**0.40**	**0.33**	**0.52**
CRHE-IDW144955-20101015	10/18/10	Water	1	**7.7**	<1.0	<1.0	**23.2**	**6.2**	<1.0
CRHE-IDW144956-20101015	10/18/10	Water	5	**2.4 I**	<1.5 I	<1.9 I	**2.6 I**	<1.6 I	<2.5 I

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # CB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: ~~CHRE~~ CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KS3*/01110											
DW-144957	10/08/10	1700			10/11/10	0820		GW	2		
DPT0141-010.0	10/11/10	0903				1100					
018.0		0917									
028.0		0932									
033.0		0953									
038.0		1014									
043.0		1032									
048.0		1055									
DPT0142 010.0		1134				1152					
018.0		1148				1152					
028.0		1303				1350					
033.0		1323									
038.0		1341									
043.0		1401				1430					
048.0		1423				1430					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/11/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 367-0073
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3★101110											
DPT 0143-028.0	10/11/10	1535			10/11/10	1535		GW	2	✓	
033.0	↓	1552			↓	1555		↓	↓	↓	
038.0		1609				1635					
043.0		1629				1635					
048.0		1657				1659					
DPT 0144-010.0	↓	1714			↓	1720		↓	↓	↓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/11/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRA KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3+101L10	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DT0144 - 018.0	10/12/10	0740			10/12/10	0748		GW	2	✓	
028.0		0757				0820					
033.0		0826				0840					
038.0		0847				0850					
043.0		0910				0920					
048.0		0934				0945					
053.0		1003				1035					
063.0		1032				1035					
DT0145 - 090.0		1119				1120					
018.0		1152				1145					
028.0		1143				1145					
033.0		1201				1205					
038.0		1305				1323					
043.0		1323				1323					
048.0		1342				1406					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/12/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3 * 101210	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0145-053.0	10/14/10	1406			10/14/10	1406		GW	2	✓	
" 063.0		1437				1445					
DPT0139-053.0		1518				1520					
" 063.0		1538				1545					
DPT0146-043.0		1617				1618					
033.0		1631				1636					
038.0		1647				1655					
043.0		1703				1710					
048.0		1732				1730					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/14/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K83

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CRTE KSGFL		
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
K83 K101310											
DPT 0147-028.0	10/13/10	0853			10/13/10	0852		GW	2	✓	
033.0		0909				0912					
038.0		0926				0928					
043.0		0945				0945					
048.0		1004				1008					
DPT 0148-010.0		1046				1100					
018.0		1100				1100					
028.0		1114				1135					
033.0		1130				1131					
038.0		1153				1200					
043.0		1214				1236					
048.0		1232				1236					
DPT 0149-010.0		1428				1440					
018.0		1438				1470					
028.0		1450				1510					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
			10/13/10	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CRTF KSCFL
SAMPLERS:
CONTACT PERSON:
BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 #10B10											
DPT 0149-033.0	10/13/10	1505			10/13/10	1520		GW	2	✓	
038.0		1521				1540					
043.0		1538				1540					
048.0		1555				1650					
DPT 0650-028.0		1640				1650					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/13/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 H014/0											
DPT 050-038.0	10/14/10	0740			10/14/10	0800		GW	2	✓	
038.0		0758				0800					
043.0		0819				0845					
048.0		0841				0845					
053.0		0913				0945					
063.0		0936				0945					
DPT 051-028.0		1032				1100					
033.0		1055				1100					
038.0		1117				1145					
043.0		1139				1145					
048.0		1200				1305					
053.0		1257				1305					
063.0		1324				1342					
DPT 052 0 10.0		1422				1440					
11 018.0		1437				1440					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/14/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CAPE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB3 10/14/10											
DPT0152-028.0	10/14/10	1448			10/14/10	1520		GW	2	✓	
033.0		1511				1520					
038.0		1542				1605					
043.0		1601				1605					
048.0		1622				1659					
DPT0153-028.0		1710				1730					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/14/10	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # HB3

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE hSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0153 -033.0	10/15	08:20						GW		✓	
-038.0		08:42									
-043.0		09:05									
-048.0		09:26									
-053.0		09:48									
-063.0		10:14									
DPT0154 - 010.0		10:52									
-018.0		11:02									
-028.0		11:16									
-033.0		11:30									
-038.0		11:45									
-043.0		12:07									
-048.0		12:27									
DPT0155 - 010.0		13:46									
-018.0		13:57									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

COC hB Lab Office

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # hB3

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE hsc, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0155-028.0	10/15	14:10						GW		✓	
-033.0		14:34									
-038.0		14:50									
-043.0		15:11									
-048.0		15:28									
CRHE-IDW144955-20101015								GW		✓	
CRHE-IDW144956-20101015										✓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

Coc hB lab Office

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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Email: info@kbmobilelabs.com

October 24, 2011

Jill Johnson
GeoSyntec Consultants
9515 Holsberry Road, Suite A
Pensacola, FL 32534

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 11-173

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from October 19 to 21, 2011. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From October 19 to 21, 2011, a total of 58 water samples were analyzed for GeoSyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, freon 113, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA Client request for diluted samples between the lab RL and MDL are reported with FDEP Data Qualifier "I". Some results were changed from the Field Report to the Final Report to reflect this requirement.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	10/19/11	94	96	103	101	Pass	Pass	Pass	Pass
RSTD 20	10/19/11	95	101	103	96	Pass	Pass	Pass	Pass
BLANK	10/19/11	102	104	102	91	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0	10/19/11	100	105	102	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-033.0	10/19/11	74	87	92	89	< LCL	Pass	Pass	Pass
CRHE-DPT0156-038.0	10/19/11	104	115	101	97	Pass	Pass	Pass	Pass
CRHE-DPT0156-043.0	10/19/11	109	117	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0156-048.0	10/19/11	98	108	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0157-028.0	10/19/11	94	107	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0157-033.0	10/19/11	112	111	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0 MS	10/19/11	106	104	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0156-028.0 MSD	10/19/11	102	104	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0157-038.0	10/19/11	111	110	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0157-043.0	10/19/11	93	113	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0157-048.0	10/19/11	96	112	98	92	Pass	Pass	Pass	Pass
WILC-IDW-185534 1:10	10/19/11	115	117	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0158-028.0	10/19/11	112	113	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0158-033.0	10/19/11	105	111	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0158-038.0	10/19/11	108	111	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0158-043.0	10/19/11	109	116	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0158-048.0	10/19/11	111	117	93	97	Pass	Pass	Pass	Pass
WILC-IDW-185535 1:10	10/19/11	112	119	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0158-043.0 1:5	10/19/11	112	114	93	97	Pass	Pass	Pass	Pass
CRHE-DPT0159-028.0	10/19/11	110	114	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0159-033.0 1:5	10/19/11	109	113	96	93	Pass	Pass	Pass	Pass
CRHE-DPT0159-038.0	10/19/11	111	118	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0159-043.0	10/19/11	113	117	97	91	Pass	Pass	Pass	Pass
CRHE-DPT0159-048.0	10/19/11	94	113	102	96	Pass	Pass	Pass	Pass
VSTD 20	10/19/11	110	113	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0159-028.0 1:5	10/19/11	112	115	94	89	Pass	Pass	Pass	Pass
CCS 20	10/20/11	103	106	104	94	Pass	Pass	Pass	Pass
RSTD 20	10/20/11	99	102	100	93	Pass	Pass	Pass	Pass
BLANK	10/20/11	110	122	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0	10/20/11	109	115	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0160-033.0	10/20/11	107	116	104	96	Pass	Pass	Pass	Pass
CRHE-DPT0160-038.0	10/20/11	110	116	105	93	Pass	Pass	Pass	Pass
CRHE-DPT0160-043.0	10/20/11	106	114	102	98	Pass	Pass	Pass	Pass
CRHE-DPT0160-048.0	10/20/11	109	120	103	90	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0161-028.0	10/20/11	104	121	103	89	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0 MS	10/20/11	95	113	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0160-028.0 MSD	10/20/11	88	104	96	85	Pass	Pass	Pass	Pass
CRHE-DPT0161-033.0	10/20/11	134	127	100	94	> UCL	Pass	Pass	Pass
CRHE-DPT0161-038.0	10/20/11	112	125	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0161-043.0	10/20/11	112	128	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0161-048.0	10/20/11	110	125	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-028.0	10/20/11	104	126	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-033.0 1:5	10/20/11	111	125	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0161-033.0 1:20	10/20/11	118	132	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-038.0	10/20/11	113	116	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-043.0	10/20/11	116	118	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0162-048.0	10/20/11	120	122	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0	10/20/11	116	122	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0162-063.0	10/20/11	117	119	99	93	Pass	Pass	Pass	Pass
CRHE-DPT0163-028.0	10/20/11	118	121	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0163-033.0	10/20/11	121	123	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0163-038.0	10/20/11	116	122	96	92	Pass	Pass	Pass	Pass
CRHE-DPT0163-043.0	10/20/11	112	119	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0163-048.0	10/20/11	117	119	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0 MS	10/20/11	110	118	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0162-053.0 MSD	10/20/11	112	119	96	95	Pass	Pass	Pass	Pass
VSTD 20	10/20/11	111	117	98	94	Pass	Pass	Pass	Pass
CCS 20	10/21/11	94	102	97	95	Pass	Pass	Pass	Pass
RSTD 20	10/21/11	107	107	101	95	Pass	Pass	Pass	Pass
BLANK	10/21/11	111	116	99	92	Pass	Pass	Pass	Pass
CRHE-DPT0164-028.0	10/21/11	114	114	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-033.0	10/21/11	116	120	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0164-038.0	10/21/11	118	122	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0164-043.0	10/21/11	119	130	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-048.0	10/21/11	119	129	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-053.0	10/21/11	113	119	94	94	Pass	Pass	Pass	Pass
CRHE-DPT0164-063.0	10/21/11	120	130	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0165-028.0	10/21/11	116	126	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0165-033.0	10/21/11	116	127	95	91	Pass	Pass	Pass	Pass
CRHE-DPT0165-038.0	10/21/11	117	129	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0165-043.0	10/21/11	118	130	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0165-048.0	10/21/11	122	135	96	96	> UCL	> UCL	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 10/19/11-10/21/11	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-IDW-185537 1:10	10/21/11	124	137	96	93	> UCL	> UCL	Pass	Pass
CRHE-IDW-185538 1:10	10/21/11	122	136	92	93	> UCL	> UCL	Pass	Pass
VSTD 20	10/21/11	114	129	98	94	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (84% - 121%)
S2 = 1,2- Dichloroethane-D4 (69% - 133%)
S3 = Toluene-D8 (87% - 111%)
S4 = 4-Bromofluorobenzene (76% - 125%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 10/19/11-10/21/11	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0156-028.0 **Date of Analysis:** 10/19/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	102	107	5	Pass	Pass	Pass
Freon 113	50	143	20	107	99	8	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	112	112	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	94	98	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	92	93	0	Pass	Pass	Pass
Trichloroethene	60	127	20	103	108	5	Pass	Pass	Pass
Tetrachloroethene	50	132	20	115	120	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0160-028.0 **Date of Analysis:** 10/20/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	98	112	14	Pass	Pass	Pass
Freon 113	50	143	20	110	107	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	117	112	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	109	96	12	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	101	94	7	Pass	Pass	Pass
Trichloroethene	60	127	20	108	110	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	121	116	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0162-053.0 **Date of Analysis:** 10/20/2011

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	46	156	20	101	103	2	Pass	Pass	Pass
Freon 113	50	143	20	102	105	3	Pass	Pass	Pass
1,1-Dichloroethene	47	150	20	124	121	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	61	135	20	117	116	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	141	20	125	121	3	Pass	Pass	Pass
Trichloroethene	60	127	20	116	118	2	Pass	Pass	Pass
Tetrachloroethene	50	132	20	123	124	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: GeoSyntec Consultants	**Driller/Sampler**: GeoSyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 10/19/11-10/21/11	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples:	LCS 1	**Date of Analysis:**	10/19/2011
	LCS 2		10/20/2011
	LCS 3		10/21/2011

Spike Compounds	**Control Limits**			**Percent Recoveries**			**Control Limit Checks**		
	Lower		**Upper**	**LCS#1**	**LCS#2**	**LCS#3**	**LCS#1**	**LCS#2**	**LCS#3**
Vinyl Chloride	52	to	150	101	97	93	Pass	Pass	Pass
Freon 113	59	to	168	109	110	107	Pass	Pass	Pass
1,1-Dichloroethene	58	to	132	119	126	127	Pass	Pass	Pass
Trans-1,2-Dichloroethene	54	to	140	112	114	111	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	to	126	105	106	106	Pass	Pass	Pass
Trichloroethene	68	to	119	105	111	113	Pass	Pass	Pass
Tetrachloroethene	58	to	127	113	125	127	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0156-028.0-20111019	10/19/2011	0924	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-033.0-20111019	10/19/2011	0937	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-038.0-20111019	10/19/2011	0949	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0156-043.0-20111019	10/19/2011	1003	Water	1	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0156-048.0-20111019	10/19/2011	1019	Water	1	**12.3**	<1.0	**5.9**	<1.0	**2.0**	<1.0	<1.0
CRHE-DPT0157-028.0-20111019	10/19/2011	1106	Water	1	<1.0	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0157-033.0-20111019	10/19/2011	1118	Water	1	<1.0	<1.0	<1.0	<1.0	**3.7**	<1.0	<1.0
CRHE-DPT0157-038.0-20111019	10/19/2011	1230	Water	1	<1.0	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0157-043.0-20111019	10/19/2011	1245	Water	1	<1.0	<1.0	<1.0	<1.0	**3.0**	<1.0	<1.0
CRHE-DPT0157-048.0-20111019	10/19/2011	1302	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-028.0-20111019	10/19/2011	1347	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-033.0-20111019	10/19/2011	1403	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-038.0-20111019	10/19/2011	1420	Water	1	**110**	<1.0	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0158-043.0-20111019	10/19/2011	1435	Water	1, 5	**210**	<1.0	<1.0	**2.2**	**6.2**	<1.0	<1.0
CRHE-DPT0158-048.0-20111019	10/19/2011	1451	Water	1	**59.9**	<1.0	<1.0	**1.1**	**14.4**	<1.0	<1.0
CRHE-DPT0159-028.0-20111019	10/19/2011	1601	Water	1, 5	**120**	<1.0	<1.0	<1.0	**4.8**	<1.0	<1.0
CRHE-DPT0159-033.0-20111019	10/19/2011	1613	Water	5	**49.0**	<5.0	<5.0	<5.0	**140**	<5.0	<5.0
CRHE-DPT0159-038.0-20111019	10/19/2011	1628	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-043.0-20111019	10/19/2011	1644	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-048.0-20111019	10/19/2011	1657	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-028.0-20111020	10/20/2011	0807	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0160-033.0-20111020	10/20/2011	0820	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-038.0-20111020	10/20/2011	0833	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-043.0-20111020	10/20/2011	0850	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0160-048.0-20111020	10/20/2011	0910	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-028.0-20111020	10/20/2011	0950	Water	1	**110**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-033.0-20111020	10/20/2011	1026	Water	1, 20	**1100**	<1.0	<1.0	**4.4**	**3.6**	<1.0	<1.0
CRHE-DPT0161-038.0-20111020	10/20/2011	1040	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-043.0-20111020	10/20/2011	1055	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-048.0-20111020	10/20/2011	1114	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-028.0-20111020	10/20/2011	1141	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-033.0-20111020	10/20/2011	1154	Water	5	**160**	<5.0	<5.0	**4.2 I**	**83**	**1.5 I**	<5.0
CRHE-DPT0162-038.0-20111020	10/20/2011	1249	Water	1	**14.0**	<1.0	<1.0	<1.0	**4.4**	<1.0	<1.0
CRHE-DPT0162-043.0-20111020	10/20/2011	1304	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-048.0-20111020	10/20/2011	1322	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-053.0-20111020	10/20/2011	1339	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0162-063.0-20111020	10/20/2011	1401	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-028.0-20111020	10/20/2011	1428	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-033.0-20111020	10/20/2011	1501	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-038.0-20111020	10/20/2011	1515	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-043.0-20111020	10/20/2011	1531	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0163-048.0-20111020	10/20/2011	1547	Water	1	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0164-028.0-20111021	10/21/2011	0804	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-033.0-20111021	10/21/2011	0834	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-038.0-20111021	10/21/2011	0852	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-043.0-20111021	10/21/2011	0909	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-048.0-20111021	10/21/2011	0924	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-053.0-20111021	10/21/2011	0942	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0164-063.0-20111021	10/21/2011	1023	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-028.0-20111021	10/21/2011	1052	Water	1	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-033.0-20111021	10/21/2011	1104	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-038.0-20111021	10/21/2011	1119	Water	1	**1.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-043.0-20111021	10/21/2011	1134	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0165-048.0-20111021	10/21/2011	1148	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA IDW

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	Freon 113	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
WILC -IDW-185534-20111019	10/19/2011	1144	Water	10	**28**	<10	<10	<10	**77**	**3.7 I**	<10
WILC- IDW-185535-20111019	10/19/2011	1145	Water	10	**2.8 I**	<10	<10	<10	**3.6 I**	<3.0 I	<10
CRHE-IDW-185537-20111021	10/21/2011	NA	Water	10	<10	<10	<10	<10	<10	<3.0 I	<10
CRHE-IDW-185538-20111021	10/21/2011	NA	Water	10	<10	<10	<10	<10	<10	<3.0 I	<10

Reporting units for waters are ug/L and for soils are mg/kg.

FR1681

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # K51

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CRTE	155 FL	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
1KS1101911											
DPT0155-025.0	10/18/11	0924			10/19/11	0925		GW	2	✓	changed by client
DPT0155-033.0		0937				0939					
-038.0		0949				0950					
-043.0		1003				1005					
-048.0		1019				1020					
DPT0157-028.0		1106				1110					
033.0		1118				1120					
IDW-185534		1144				1148			1		
IDW-185535		1145				148			1		
DPT0157-038.0		1230				1231			2		
-043.0		1245				1247					
048.0		1302				1305					
DPT0158-028.0		1347				1348					
033.0		1403				1403					
038.0		1420				142					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/19/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KS1#01911											
DPT0158-043.0	10/19/11	1435			10/19/11	1435		GW	2	✓	
" -048.0	↓	1451			↓	1452		↓	↓	↓	
DPT0159-028.0		1601				1613					
-033.0		1613				1615					
-038.0		1628				1645					
-043.0		1644				1641					
-048.0		1657				1705					

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
			10/19/11	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CR/TE KSC, FL		
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT 0160-028.0	10/20/11	0817			10/20/11	0825		GW	2		
-033.0		0820				0825					
-038.0		0833				0850					
-043.0		0850				0850					
-048.0		0910				0918					
DPT 0161 -028.0		0950				0855					
-033.0		1026				1040					
-038.0		1040				1040					
-043.0		1053				1123					
-048.0		1114				1123					
DPT 0162-028.0		1141				1200					
033.0		1154				1200					
038.0		1249				1309					
043.0		1304				1309					
048.0		1324				1348					

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/20/11	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # ICS1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE ICSQFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0162 053.0	10/20/11	1339			10/20/11	1348		GW	2	✓	
" 063.0		1401				1420					
DPT0163 028.0		1428				1435					
033.0		1501				1479					
038.0		1515				1519					
043.0		1531				1553					
048.0		1547				1557					

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/20/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KBL

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CHRE ISC, FL

SAMPLERS:

CONTACT PERSON:

BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KBL #102411	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0164-028.0	10/24/11	0804			10/24/11	0840		GW	2		
-033.0		0834				0840					
-038.0		0852				0915					
-043.0		0909				0915					
-048.0		0924				0947					
-053.0		0942				0947					
-063.0		1023				1030					
DPT0165-028.0		1052				1110					
-033.0		1104				1110					
-038.0		1119				1140					
-043.0		1134				1140					
-048.0		1148				1156					
IDW-185537						1235					
IDW-185538						1235					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	10/24/11	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
25132 SW 1st Ave
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Email: info@kbmobilelabs.com

January 16, 2012

Jill Johnson
GeoSyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project #11-173

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from January 9 to 12, 2012. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From January 9 to 12, 2012, a total of 71 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840
KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the

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standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data qualifier "I".

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 1/9/12-1/12/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
VSTD 20	01/09/12	110	92	102	96	Pass	Pass	Pass	Pass
RSTD 20	01/09/12	105	95	103	100	Pass	Pass	Pass	Pass
BLANK	01/09/12	111	95	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0166-028.0	01/09/12	100	87	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0166-033.0	01/09/12	118	98	103	84	Pass	Pass	Pass	Pass
CRHE-DPT0166-043.0	01/09/12	119	97	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0166-048.0	01/09/12	109	107	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0166-028.0 MS	01/09/12	115	98	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0166-028.0 MSD	01/09/12	115	101	106	86	Pass	Pass	Pass	Pass
CRHE-DPT0166-038.0	01/09/12	118	100	102	97	Pass	Pass	Pass	Pass
CRHE-DPT0167-028.0	01/09/12	117	95	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0167-033.0	01/09/12	121	102	104	95	Pass	Pass	Pass	Pass
CRHE-DPT0167-038.0	01/09/12	122	104	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0167-043.0	01/09/12	124	103	103	99	Pass	Pass	Pass	Pass
CRHE-DPT0167-048.0	01/09/12	123	107	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0168-028.0	01/09/12	123	105	103	97	Pass	Pass	Pass	Pass
CRHE-DPT0168-033.0	01/09/12	121	106	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0168-038.0	01/09/12	107	99	105	94	Pass	Pass	Pass	Pass
CRHE-DPT0168-043.0	01/09/12	124	107	98	95	Pass	Pass	Pass	Pass
CRHE-DPT0168-048.0	01/09/12	123	104	103	95	Pass	Pass	Pass	Pass
CRHE-DPT0169-028.0	01/09/12	125	110	101	96	Pass	Pass	Pass	Pass
CRHE-DPT0169-033.0	01/09/12	127	107	100	96	> UCL	Pass	Pass	Pass
CRHE-DPT0169-038.0	01/09/12	126	107	97	98	> UCL	Pass	Pass	Pass
CRHE-DPT0169-043.0	01/09/12	126	110	102	98	> UCL	Pass	Pass	Pass
CRHE-DPT0169-048.0	01/09/12	128	112	102	98	> UCL	Pass	Pass	Pass
VSTD 20	01/09/12	123	105	102	94	Pass	Pass	Pass	Pass
BLANK	01/10/12	101	104	98	107	Pass	Pass	Pass	Pass
CCS 20	01/10/12	100	104	98	105	Pass	Pass	Pass	Pass
LCS 20	01/10/12	101	105	97	104	Pass	Pass	Pass	Pass
BLANK	01/10/12	101	105	100	108	Pass	Pass	Pass	Pass
CRHE-DPT0170-028.0	01/10/12	100	101	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0170-033.0	01/10/12	97	96	101	107	Pass	Pass	Pass	Pass
CRHE-DPT0170-038.0	01/10/12	100	101	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0170-043.0	01/10/12	103	107	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0170-048.0	01/10/12	101	105	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0170-028.0 MS	01/10/12	98	97	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0170-028.0 MSD	01/10/12	100	100	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0171-028.0	01/10/12	100	100	100	106	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 1/9/12-1/12/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0171-033.0	01/10/12	104	108	99	107	Pass	Pass	Pass	Pass
CRHE-DPT0171-038.0	01/10/12	102	104	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0171-043.0	01/10/12	104	109	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0171-048.0	01/10/12	103	109	98	106	Pass	Pass	Pass	Pass
CRHE-DPT0172-028.0	01/10/12	101	101	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0172-033.0	01/10/12	103	105	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0172-038.0	01/10/12	100	101	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0172-043.0	01/10/12	101	100	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0172-048.0	01/10/12	102	106	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0172-053.0	01/10/12	104	109	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0172-063.0	01/10/12	104	107	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0173-028.0	01/10/12	103	106	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0173-033.0	01/10/12	103	108	98	104	Pass	Pass	Pass	Pass
CRHE-DPT0173-038.0	01/10/12	104	107	99	104	Pass	Pass	Pass	Pass
CCS 20	01/10/12	97	103	99	100	Pass	Pass	Pass	Pass
BLANK	01/11/12	97	96	102	106	Pass	Pass	Pass	Pass
CCS 20	01/11/12	99	100	99	104	Pass	Pass	Pass	Pass
LCS 20	01/11/12	99	106	98	102	Pass	Pass	Pass	Pass
BLANK	01/11/12	101	106	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0173-043.0	01/11/12	101	103	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0173-048.0	01/11/12	103	109	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0173-053.0	01/11/12	102	105	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0173-063.0	01/11/12	103	109	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0174-028.0	01/11/12	103	108	98	106	Pass	Pass	Pass	Pass
CRHE-DPT0174-033.0 1:10	01/11/12	103	105	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0174-033.0 1:20	01/11/12	102	104	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0174-038.0 1:50	01/11/12	102	103	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0174-043.0 1:50	01/11/12	102	107	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0174-048.0 1:20	01/11/12	101	105	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-028.0	01/11/12	103	103	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0175-033.0	01/11/12	103	107	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0175-038.0	01/11/12	104	109	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-043.0	01/11/12	104	109	97	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-048.0	01/11/12	103	105	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0175-048.0 MS	01/11/12	101	107	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0175-048.0 MSD	01/11/12	99	102	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0176-028.0	01/11/12	103	107	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0176-033.0	01/11/12	105	111	97	102	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 11-173
On-site Dates: 1/9/12-1/12/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0176-038.0	01/11/12	106	110	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0176-043.0	01/11/12	104	106	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0176-048.0	01/11/12	104	108	99	102	Pass	Pass	Pass	Pass
CRHE-IDW 188675	01/11/12	106	114	97	102	Pass	Pass	Pass	Pass
CCS 20	01/11/12	98	99	101	95	Pass	Pass	Pass	Pass
BLANK	01/12/12	106	110	100	103	Pass	Pass	Pass	Pass
CCS 20	01/12/12	104	107	98	97	Pass	Pass	Pass	Pass
LCS 20	01/12/12	101	102	99	98	Pass	Pass	Pass	Pass
BLANK	01/12/12	103	107	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-028.0	01/12/12	106	109	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-033.0	01/12/12	101	97	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-038.0	01/12/12	106	109	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0177-043.0	01/12/12	103	106	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-048.0	01/12/12	106	110	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0177-048.0 MS	01/12/12	101	103	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0177-048.0 MSD	01/12/12	100	100	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0178-028.0	01/12/12	101	97	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0178-033.0	01/12/12	104	106	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0178-038.0	01/12/12	104	102	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0178-043.0	01/12/12	105	109	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0178-048.0	01/12/12	104	104	99	100	Pass	Pass	Pass	Pass
CRHE-IDW088675	01/12/12	109	115	96	101	Pass	Pass	Pass	Pass
CCS 20	01/12/12	108	120	95	93	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 1/9/12-1/12/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0166-028.0 **Date of Analysis:** 1/9/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	102	104	2	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	105	107	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	103	107	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	107	110	2	Pass	Pass	Pass
Trichloroethene	67	128	20	89	90	1	Pass	Pass	Pass
Tetrachloroethene	60	140	20	86	90	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0170-028.0 **Date of Analysis:** 1/10/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	77	79	3	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	91	95	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	83	86	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	85	88	4	Pass	Pass	Pass
Trichloroethene	67	128	20	83	87	4	Pass	Pass	Pass
Tetrachloroethene	60	140	20	83	86	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0175-048.0 **Date of Analysis:** 1/11/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	89	92	3	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	115	113	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	89	87	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	91	89	2	Pass	Pass	Pass
Trichloroethene	67	128	20	89	88	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	86	87	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0177-048.0 **Date of Analysis:** 1/12/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	93	90	4	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	115	110	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	86	84	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	89	86	3	Pass	Pass	Pass
Trichloroethene	67	128	20	89	86	3	Pass	Pass	Pass
Tetrachloroethene	60	140	20	86	84	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson, Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 11-173
Onsite Dates: 1/9/12-1/12/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1, LCS 2, LCS 3 **Date of Analysis:** 1/9/2012, 1/10/2012, 1/11/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	58	to	135	103	89	95	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	100	104	116	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	99	102	97	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	95	105	99	Pass	Pass	Pass
Trichloroethene	68	to	128	83	106	99	Pass	Pass	Pass
Tetrachloroethene	67	to	135	90	102	95	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:**

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4			LCS#4		
Vinyl Chloride	58	to	135	90			Pass		
1,1-Dichloroethene	60	to	141	108			Pass		
Trans-1,2-Dichloroethene	62	to	133	88			Pass		
Cis-1,2-Dichloroethene	62	to	140	90			Pass		
Trichloroethene	68	to	128	90			Pass		
Tetrachloroethene	67	to	135	88			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0166-028.0-20120109	1/9/2012	0905	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-033.0-20120109	1/9/2012	0938	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-038.0-20120109	1/9/2012	1000	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-043.0-20120109	1/9/2012	1020	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0166-048.0-20120109	1/9/2012	1040	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-028.0-20120109	1/9/2012	1148	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-033.0-20120109	1/9/2012	1204	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-038.0-20120109	1/9/2012	1230	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-043.0-20120109	1/9/2012	1248	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-048.0-20120109	1/9/2012	1302	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-028.0-20120109	1/9/2012	1355	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-033.0-20120109	1/9/2012	1412	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-038.0-20120109	1/9/2012	1432	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-043.0-20120109	1/9/2012	1450	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0168-048.0-20120109	1/9/2012	1512	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0169-028.0-20120109	1/9/2012	1620	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0169-033.0-20120109	1/9/2012	1632	Water	1	**1.2**	<1.0	<1.0	**5.0**	<1.0	<1.0
CRHE-DPT0169-038.0-20120109	1/9/2012	1646	Water	1	**17.6**	<1.0	<1.0	**32.2**	<1.0	<1.0
CRHE-DPT0169-043.0-20120109	1/9/2012	1704	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0169-048.0-20120109	1/9/2012	1718	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-028.0-20120110	1/10/2012	0823	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-033.0-20120110	1/10/2012	0836	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-038.0-20120110	1/10/2012	0854	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-043.0-20120110	1/10/2012	0915	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0170-048.0-20120110	1/10/2012	0932	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-028.0-20120110	1/10/2012	1049	Water	1	**6.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-033.0-20120110	1/10/2012	1105	Water	1	**18.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-038.0-20120110	1/10/2012	1121	Water	1	**52.6**	<1.0	<1.0	**1.6**	<1.0	<1.0
CRHE-DPT0171-043.0-20120110	1/10/2012	1137	Water	1	**50.7**	<1.0	<1.0	**2.5**	<1.0	<1.0
CRHE-DPT0171-048.0-20120110	1/10/2012	1155	Water	1	**7.0**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0172-028.0-20120110	1/10/2012	1346	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0172-033.0-20120110	1/10/2012	1402	Water	1	**48.2**	<1.0	<1.0	**2.1**	<1.0	<1.0
CRHE-DPT0172-038.0-20120110	1/10/2012	1418	Water	1	**27.7**	<1.0	<1.0	**4.0**	<1.0	<1.0
CRHE-DPT0172-043.0-20120110	1/10/2012	1436	Water	1	**13.5**	<1.0	<1.0	**4.3**	<1.0	<1.0
CRHE-DPT0172-048.0-20120110	1/10/2012	1500	Water	1	**27.0**	<1.0	**2.2**	**84.4**	<1.0	<1.0
CRHE-DPT0172-053.0-20120110	1/10/2012	1526	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0172-063.0-20120110	1/10/2012	1550	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-028.0-20120110	1/10/2012	1635	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-033.0-20120110	1/10/2012	1647	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-038.0-20120110	1/10/2012	1705	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-043.0-20120111	1/11/2012	0745	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-048.0-20120111	1/11/2012	0805	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-053.0-20120111	1/11/2012	0825	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0173-063.0-20120111	1/11/2012	0850	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0174-028.0-20120111	1/11/2012	1003	Water	1	**1.4**	<1.0	**2.4**	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0174-033.0-20120111	1/11/2012	1018	Water	10, 20	**720**	**6.5 I**	**48**	**1600**	**22**	<10
CRHE-DPT0174-038.0-20120111	1/11/2012	1034	Water	50	**740**	<50	**80**	**2800**	<13 I	<50
CRHE-DPT0174-043.0-20120111	1/11/2012	1053	Water	50	**400**	<50	**85**	**2600**	**31 I**	<50
CRHE-DPT0174-048.0-20120111	1/11/2012	1134	Water	20	**280**	<20	**37**	**1100**	<5 I	<20
CRHE-DPT0175-028.0-20120111	1/11/2012	1202	Water	1	<1.0	<1.0	<1.0	**4.5**	<1.0	<1.0
CRHE-DPT0175-033.0-20120111	1/11/2012	1248	Water	1	<1.0	<1.0	<1.0	**7.6**	<1.0	<1.0
CRHE-DPT0175-038.0-20120111	1/11/2012	1304	Water	1	<1.0	<1.0	<1.0	**19.1**	<1.0	<1.0
CRHE-DPT0175-043.0-20120111	1/11/2012	1320	Water	1	**1.5**	<1.0	<1.0	**19.8**	<1.0	<1.0
CRHE-DPT0175-048.0-20120111	1/11/2012	1342	Water	1	**6.5**	<1.0	<1.0	**3.3**	<1.0	<1.0
CRHE-DPT0176-028.0-20120111	1/11/2012	1437	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-033.0-20120111	1/11/2012	1455	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-038.0-20120111	1/11/2012	1512	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-043.0-20120111	1/11/2012	1532	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0176-048.0-20120111	1/11/2012	1555	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-028.0-20120112	1/12/2012	0826	Water	1	**15.5**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0177-033.0-20120112	1/12/2012	0856	Water	1	**7.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-038.0-20120112	1/12/2012	0918	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-043.0-20120112	1/12/2012	0934	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-048.0-20120112	1/12/2012	0952	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-028.0-20120112	1/12/2012	1110	Water	1	**35.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-033.0-20120112	1/12/2012	1129	Water	1	**2.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-038.0-20120112	1/12/2012	1145	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-043.0-20120112	1/12/2012	1200	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0178-048.0-20120112	1/12/2012	1218	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE - IDW

KSC, FL

Prepared for: GeoSyntec

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW188675-20120111	1/11/2012	1715	Water	1	**8.1**	<1.0	<1.0	**40.4**	<1.0	<1.0
CRHE-IDW088675-20120112	1/12/2012	1410	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB1

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KB1K0109/2	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0166-028.0	4/9/12	0905			4/9/12	1050		GW	2	✓	
-033.0		0938									
038.0		1000									
043.0		1020									
048.0		1040									
DPT0167-028.0		1148				1315					
033.0		1204									
038.0		1230									
043.0		1248									
048.0		1306									
DPT0168 028.0		1355				1520					
033.0		1412									
038.0		1432									
043.0		1450									
048.0		1512									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	4/9/12	**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)*		

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KSI

CLIENT NAME: Graynite

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID \ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KSI-K0109-12											
Dpt-0169-028.0	1/9/12	1520			1/9/12	1720		aw	2	✓	
033.0	↓	1632			↓	↓		↓	↓	↓	
038.0		1646									
043.0		1704									
048.0		1718									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 1/9/12	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/4

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200 Quade Drive
Cary, NC 27513
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MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS
GeoSyntec	NASA CKHC
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB2 - 011012											
DPT 0170 - 28	1/10/12	0823			1/10/12	0954		GW	2	✓	KB2 - 011012
DPT 0170 - 33		0836				0954					
DPT 0170 - 38		0854				0954					
DPT 0170 - 43		0915				0954					
DPT 0170 - 48		0932				0954					
DPT 0171 - 28		1049				1210					
DPT 0171 - 33		1105				1210					
DPT 0171 - 38		1121				1210					
DPT 0171 - 43		1137				1210					
DPT 0171 - 48		1155				1210					
DPT 0172 - 28		1346				1430					
DPT 0172 - 33		1402				1430					
DPT 0172 - 38		1418				1430					
DPT 0172 - 43		1436				1605					
DPT 0172 - 48		1500				1605					

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*		Received by: *(Signature)* BH	1/10/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

2 / 4

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	NASA - CRHE
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB2 - 011012 -	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0172 - 53	1/10/12	1526			1/10/12	1605		GW	2	V	KB2 - 011112
DPT0172 - 63		1550				1605					
DPT0173 - 28		1635				1720					
DPT0173 - 33		1647				1720					
DPT0173 - 38		1705				1720					
DPT0173 - 43	1/11/12	0745			1/11/12	0905		GW	2	V	KB2 - 011112
DPT0173 - 48		0805				0905					
DPT0173 - 53		0825				0905					
DPT0173 - 63		0850				0905					
DPT0174 - 28		1003				1045					
DPT0174 - 33		1018				1045					
DPT0174 - 38		1034				1045					
DPT0174 - 43		1053				1134					
DPT0174 - 48		1109				1134					
DPT0175 - 28		1202				1355					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			1/11/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (919) 678-0030

MOBILE UNIT # MB2

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA - CRHE

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT0175 - 33	1/11/12	1248			1/11/12	1355		GW	2	✓	MB2 - 01112
DPT0175 - 38		1304				1355					
DPT0175 - 43		1320				1355					
DPT0175 - 48		1342				1355					
DPT0176 - 28		1437				1615					
DPT0176 - 33		1455				1615					
DPT0176 - 38		1512				1615					
DPT0176 - 43		1532				1615					
DPT0176 - 48		1555				1615					
IDW 188675		1715				1715					
DPT0177 - 28	1/12/12	0826			1/12/12	0835					MB2 - 01212
DPT0177 - 33		0856				0925					
DPT0177 - 38		0918				0925					
DPT0177 - 43		0934				1010					
DPT0177 - 48		0952				1010					

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			1/12/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Mobile Laboratory Services

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Newberry, FL 32669
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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

CHAIN-OF-CUSTODY RECORD

4/4

MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS																
Geosyntec	NASA - CRHC																
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)										
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES					COMMENT / SAMPLE PRE FIX		
DPT0178-28	1/12/12	1110			1/12/12	1309		GW	2	✓					KB2 - 01212		
DPT0178-33	"	1129			"	1309		"	"	"					"		
DPT0178-38	"	1145			"	1309		"	"	"					"		
DPT0178-43	"	1200			"	1309		"	"	"					"		
DPT0178-48	"	1218			"	1309		"	"	"					"		
IDW 088675	"	1410			"	1420		"	"	"					"		

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			1/12/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
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Email: info@kbmobilelabs.com

February 13, 2012

Jill Johnson
Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project #12-28

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from February 7 to 10, 2012. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From February 7 to 10, 2012, a total of 53 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per NASA client request for diluted samples between the lab RL and MDL are reported with FDEP Data qualifier "I".

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-28
On-site Dates: 2/7/12-2/10/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	02/07/12	100	99	99	98	Pass	Pass	Pass	Pass
LCS 20	02/07/12	97	90	101	100	Pass	Pass	Pass	Pass
BLANK	02/07/12	105	101	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0159-010.0	02/07/12	104	104	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0159-018.0	02/07/12	104	99	100	103	Pass	Pass	Pass	Pass
CCS 20	02/08/12	99	91	102	98	Pass	Pass	Pass	Pass
LCS 20	02/08/12	97	91	100	100	Pass	Pass	Pass	Pass
BLANK	02/08/12	105	102	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0161-010.0	02/08/12	106	99	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0161-018.0	02/08/12	105	98	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0167-010.0	02/08/12	105	98	101	105	Pass	Pass	Pass	Pass
CRHE-DPT0167-018.0	02/08/12	105	98	100	105	Pass	Pass	Pass	Pass
CCS 20	02/08/12	101	98	99	99	Pass	Pass	Pass	Pass
LCS 20	02/08/12	100	94	99	99	Pass	Pass	Pass	Pass
BLANK	02/08/12	107	104	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0179-010.0	02/08/12	106	101	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0179-018.0	02/08/12	101	96	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0179-028.0	02/08/12	109	102	113	117	Pass	Pass	Pass	Pass
CRHE-DPT0179-033.0	02/08/12	104	96	102	105	Pass	Pass	Pass	Pass
CRHE-DPT0179-038.0	02/08/12	104	100	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0179-043.0	02/08/12	109	104	98	105	Pass	Pass	Pass	Pass
CRHE-DPT0179-048.0	02/08/12	105	100	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0179-048.0 MS	02/08/12	99	92	103	100	Pass	Pass	Pass	Pass
CRHE-DPT0179-048.0 MSD	02/08/12	96	86	104	102	Pass	Pass	Pass	Pass
CRHE-DPT0180-010.0	02/08/12	103	98	101	105	Pass	Pass	Pass	Pass
CRHE-DPT0180-018.0	02/08/12	107	101	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-028.0	02/08/12	108	102	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-033.0	02/08/12	107	99	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-038.0	02/08/12	108	98	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0180-043.0	02/09/12	107	98	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0180-048.0	02/09/12	107	98	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-010.0	02/09/12	105	96	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-018.0	02/09/12	107	100	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0181-028.0	02/09/12	107	98	99	101	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-28
On-site Dates: 2/7/12-2/10/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0181-038.0	02/09/12	108	100	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-043.0	02/09/12	106	99	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0181-048.0	02/09/12	105	94	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0182-010.0	02/09/12	107	98	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0182-018.0	02/09/12	107	99	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0182-028.0	02/09/12	108	102	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0182-038.0	02/09/12	106	97	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0182-043.0	02/09/12	107	99	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0182-048.0	02/09/12	107	98	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-010.0	02/09/12	107	99	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0183-010.0 MS	02/09/12	102	95	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0183-010.0 MSD	02/09/12	99	91	100	100	Pass	Pass	Pass	Pass
CCS 20	02/09/12	96	87	102	101	Pass	Pass	Pass	Pass
CCS 20	02/09/12	97	84	102	99	Pass	Pass	Pass	Pass
LCS 20	02/09/12	97	90	100	100	Pass	Pass	Pass	Pass
BLANK	02/09/12	105	98	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0177-018.0	02/09/12	107	101	99	102	Pass	Pass	Pass	Pass
CCS 20	02/09/12	99	94	100	100	Pass	Pass	Pass	Pass
LCS 20	02/09/12	97	90	101	100	Pass	Pass	Pass	Pass
BLANK	02/09/12	100	94	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-018.0	02/09/12	100	92	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0183-028.0	02/09/12	102	97	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0183-038.0	02/09/12	103	97	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-043.0	02/09/12	102	93	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0183-048.0	02/09/12	105	98	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-010.0	02/09/12	106	96	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-014.0	02/09/12	105	96	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0177-023.0	02/09/12	103	93	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0184-010.0	02/09/12	102	93	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0184-018.0	02/09/12	106	98	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0184-028.0	02/09/12	105	99	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0184-033.0	02/09/12	104	96	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0184-038.0	02/10/12	104	92	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0184-043.0	02/10/12	103	93	100	101	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-28
On-site Dates: 2/7/12-2/10/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0184-048.0	02/10/12	103	95	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0159-014.0	02/10/12	103	94	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0159-023.0	02/10/12	103	95	100	102	Pass	Pass	Pass	Pass
CRHE-IDW188738 1:10	02/10/12	100	92	102	101	Pass	Pass	Pass	Pass
CRHE-IDW188736 1:10	02/10/12	100	93	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0184-048.0 MS	02/10/12	98	91	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0184-048.0 MSD	02/10/12	98	89	102	101	Pass	Pass	Pass	Pass
CCS 20	02/10/12	93	86	103	101	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-28
Onsite Dates: 2/7/12-2/10/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0179-048.0 **Date of Analysis:** 2/8/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	110	106	4	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	103	97	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	102	96	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	89	86	4	Pass	Pass	Pass
Trichloroethene	67	128	20	102	97	5	Pass	Pass	Pass
Tetrachloroethene	60	140	20	105	101	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0183-010.0 **Date of Analysis:** 2/9/2010

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	111	102	8	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	103	93	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	104	97	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	96	90	6	Pass	Pass	Pass
Trichloroethene	67	128	20	100	93	7	Pass	Pass	Pass
Tetrachloroethene	60	140	20	103	97	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0184-048.0 **Date of Analysis:** 2/10/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	97	99	2	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	94	95	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	94	95	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	88	87	1	Pass	Pass	Pass
Trichloroethene	67	128	20	92	93	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	96	97	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-28
Onsite Dates: 2/7/12-2/10/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 2/7/2012
LCS 2 — 2/8/2012
LCS 3 — 2/8/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	58	to	135	104	106	130	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	98	99	119	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	93	100	122	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	99	94	115	Pass	Pass	Pass
Trichloroethene	68	to	128	101	97	119	Pass	Pass	Pass
Tetrachloroethene	67	to	135	102	101	122	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 2/9/2012
LCS 5 — 2/9/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5		LCS#4	LCS#5	
Vinyl Chloride	58	to	135	95	102		Pass	Pass	
1,1-Dichloroethene	60	to	141	85	97		Pass	Pass	
Trans-1,2-Dichloroethene	62	to	133	89	98		Pass	Pass	
Cis-1,2-Dichloroethene	62	to	140	87	93		Pass	Pass	
Trichloroethene	68	to	128	86	98		Pass	Pass	
Tetrachloroethene	67	to	135	91	97		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0159-010.0-20120207	2/7/2012	0923	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-018.0-20120207	2/7/2012	0944	Water	1	**16.8**	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0161-010.0-20120207	2/8/2012	1030	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0161-018.0-20120207	2/8/2012	1047	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-010.0-20120207	2/8/2012	1320	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0167-018.0-20120207	2/8/2012	1339	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-010.0-20120207	2/8/2012	1427	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-018.0-20120207	2/8/2012	1440	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-028.0-20120207	2/8/2012	1453	Water	1	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-033.0-20120207	2/8/2012	1511	Water	1	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-038.0-20120207	2/8/2012	1528	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-043.0-20120207	2/8/2012	1542	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0179-048.0-20120207	2/8/2012	1605	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-010.0-20120207	2/8/2012	1632	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-018.0-20120208	2/8/2012	0802	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-028.0-20120208	2/8/2012	0816	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-033.0-20120208	2/8/2012	0836	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-038.0-20120208	2/8/2012	0854	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-043.0-20120208	2/9/2012	0914	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0180-048.0-20120208	2/9/2012	0930	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0181-010.0-20120208	2/9/2012	1053	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-018.0-20120208	2/9/2012	1105	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-028.0-20120208	2/9/2012	1119	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-038.0-20120208	2/9/2012	1135	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-043.0-20120208	2/9/2012	1154	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0181-048.0-20120208	2/9/2012	1212	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-010.0-20120208	2/9/2012	1407	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-018.0-20120208	2/9/2012	1416	Water	1	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-028.0-20120208	2/9/2012	1423	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-038.0-20120208	2/9/2012	1439	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-043.0-20120208	2/9/2012	1505	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0182-048.0-20120208	2/9/2012	1525	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-010.0-20120208	2/9/2012	1645	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-018.0-20120209	2/9/2012	0719	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-028.0-20120209	2/9/2012	0732	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-038.0-20120209	2/9/2012	0750	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-043.0-20120209	2/9/2012	0807	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0183-048.0-20120209	2/9/2012	0833	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-010.0-20120209	2/9/2012	1107	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-014.0-20120209	2/9/2012	1118	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0177-018.0-20120209	2/9/2012	1127	Water	1	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0177-023.0-20120209	2/9/2012	1136	Water	1	**2.4**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-010.0-20120209	2/9/2012	1336	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-018.0-20120209	2/9/2012	1346	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-028.0-20120209	2/9/2012	1356	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-033.0-20120209	2/9/2012	1413	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-038.0-20120209	2/10/2012	1430	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-043.0-20120209	2/10/2012	1446	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0184-048.0-20120209	2/10/2012	1500	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-014.0-20120207	2/10/2012	0936	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0159-023.0-20120207	2/10/2012	0956	Water	1	**53.6**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-IDW188738-20120209	2/10/2012	1710	Water	10	<2.4 I	<10	<10	<10	<2.5 I	<10
CRHE-IDW188736-20120209	2/10/2012	1711	Water	10	<2.4 I	<10	<10	<10	<2.5 I	<10

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT #: KB 2

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA - CRMS

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
KB2 - 020712											
DPT0159 - 010.0	2/7/12	0923			2/7/12	1625		GW	2	✓	
DPT0159 - 014.0		0936									H
DPT0159 - 018.0		0944									
DPT0159 - 023.0		0956									H
DPT 0161 - 010.0		1030									
DPT 0161 - 014.0		1036									H - Do not run
DPT 0161 - 018.0		1047									
DPT 0161 - 023.0		1055									H - Do not run
DPT 0167 - 010.0		1320									
DPT 0167 - 014.0		1329									H - Do not run
DPT 0167 - 018.0		1339									
DPT 0167 - 023.0		1353									H - Do not run
DPT 0179 - 010.0		1427									
DPT 0179 - 018.0		1440									
DPT 0179 - 028.0		1453									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 2/7/12

Remarks and Observations

Do not run per client on 2/7/12.

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

2/2

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MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
KB2-020712											
DPT0179-033.0	2/7/12	1511			2/7/12	1625		GW	2	✓	
DPT0179-038.0		1528				1625					
DPT0179-043.0		1542				1625					
DPT0179-048.0		1603				1625					
DPT0180-010.0		1632				1753					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/7/12

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	NASA - CRTE
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER KB2-020812	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0180 - 018.0	2/8/12	0802			2/8/12	1420		GW	2	✓	
028.0		0816				1420					
033.0		0836				1420					
038.0		0854				1420					
043.0		0914				1420					
048.0		0930				1420					
DPT0181 - 010.0		1053				1420					
- 018.0		1105				1420					
- 028.0		1119				1420					
- 038.0		1135				1420					
- 043.0		1154				1420					
- 048.0		1212				1420					
DPT0182 - 010.0		1407				1657					
018.0		1416				1657					
028.0		1423				1657					

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 2/8/12

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # K82

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	NASA - CRH2	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT 0182 - 038.0	2/5/12	1439			2/5/12	1657		GW	2	✓	
" - 043.0	"	1505			"	1657		"	"	"	
" - 048.0	"	1525			"	1657		"	"	"	
DPT 0183 - 010.0	"	1645			"	1657		"	"	"	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BM JR	Date / Time 2/5/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

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MOBILE UNIT # KB2

CLIENT NAME	PROJECT NAME & ADDRESS	BATCH # (Lab Use Only)
Geosyntec	NASA - CRHE	
SAMPLERS	CONTACT PERSON	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB2-020912											
CRHE - DPT0183-018.0	2/9/12	0719			2/9/12	1149		GW	2	✓	
DPT 0183 - 028.0		0732				1149					
DPT 0183 - 038.0		0750				1149					
DPT 0183 - 043.0		0807				1149					
DPT 0183 - 048.0		0833				1149					
DPT 0177 - 010.0		1107				1149					
DPT 0177 - 014.0		1118				1149					
DPT 0177 - 018.0		1127				1149					
DPT 0177 - 023.0		1136				1149					
DPT 0184 - 010.0		1336				1520					
DPT 0184 - 018.0		1346				1520					
DPT 0184 - 028.0		1356				1520					
DPT 0184 - 033.0		1413				1520					
DPT 0184 - 038.0		1430				1520					
DPT 0184 - 043.0		1446				1520					

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature) BD JE	Date / Time 2/9/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB 2

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	NASA - CRHE
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
KB2 - 020912											
DPT0154 - 048.0	2/9/12	1500			2/9/12	1520		GW	2	✓	
IDW 188738	"	1710			"	1720		"	"	"	
IDW 188736	"	1711			"	1720		"	"	"	

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)		Received by: (Signature)	2/9/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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***Fax* (352) 472-5832**
Email: info@kbmobilelabs.com

October 25, 2012

Jill Johnson
Geosyntec Consultants
316 South Baylen Street
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report RevA
KB Labs Project # 12-163

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From October 2 through 16, 2012, a total of 71 water samples were analyzed for Geosyntec Consultants at Wilson Corners, KSC, FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per client, removed the V* designation for samples collected on 10/16/12.

3. As per client request, changed DPT0195-058.0-20121016 to DPT0089-058.0-2012016.

4. As per client request, removed original reported sample of DPT0089-058.0-20121016 from report (duplicate location).

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George/Greg Lamb
Site: CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 10/2/12-10/5/12, 10/16/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	10/02/12	102	91	105	111	Pass	Pass	Pass	Pass
CCS 20	10/02/12	104	108	98	106	Pass	Pass	Pass	Pass
LCS 20	10/02/12	103	88	103	106	Pass	Pass	Pass	Pass
BLANK	10/02/12	104	93	101	122	Pass	Pass	Pass	Pass
DPT0185-018.02	10/02/12	99	88	103	116	Pass	Pass	Pass	Pass
DPT0185-023.02	10/02/12	103	91	107	110	Pass	Pass	Pass	Pass
DPT0185-028.02	10/02/12	93	89	100	116	Pass	Pass	Pass	Pass
DPT0185-028.02 MS	10/02/12	110	101	101	105	Pass	Pass	Pass	Pass
DPT0185-028.02 MSD	10/02/12	101	102	101	99	Pass	Pass	Pass	Pass
DPT0185-033.02	10/02/12	101	92	106	112	Pass	Pass	Pass	Pass
DPT0185-038.02	10/02/12	101	92	100	110	Pass	Pass	Pass	Pass
DPT0185-043.02	10/02/12	102	92	102	115	Pass	Pass	Pass	Pass
DPT0185-058.02	10/02/12	96	95	100	112	Pass	Pass	Pass	Pass
BLANK	10/02/12	96	92	104	110	Pass	Pass	Pass	Pass
DPT0186-028.02	10/02/12	87	81	99	113	Pass	Pass	Pass	Pass
DPT0186-033.02	10/02/12	95	84	102	105	Pass	Pass	Pass	Pass
DPT0186-038.02	10/02/12	102	93	99	109	Pass	Pass	Pass	Pass
DPT0186-043.02	10/02/12	89	89	100	112	Pass	Pass	Pass	Pass
DPT0186-058.02	10/02/12	101	92	100	111	Pass	Pass	Pass	Pass
DPT0187-028.02	10/02/12	98	91	99	105	Pass	Pass	Pass	Pass
DPT0187-033.02	10/02/12	99	96	104	106	Pass	Pass	Pass	Pass
DPT0187-038.02	10/02/12	99	87	100	107	Pass	Pass	Pass	Pass
DPT0187-043.02	10/02/12	96	95	99	108	Pass	Pass	Pass	Pass
DPT0187-058.02	10/02/12	97	86	100	104	Pass	Pass	Pass	Pass
DPT0188-028.02	10/02/12	106	88	102	108	Pass	Pass	Pass	Pass
DPT0188-033.02	10/02/12	105	95	98	107	Pass	Pass	Pass	Pass
CCS 20	10/02/12	102	102	96	98	Pass	Pass	Pass	Pass
BLANK	10/03/12	102	90	109	114	Pass	Pass	Pass	Pass
CCS 20	10/03/12	104	103	100	103	Pass	Pass	Pass	Pass
LCS 20	10/03/12	99	94	101	100	Pass	Pass	Pass	Pass
BLANK	10/03/12	100	89	103	112	Pass	Pass	Pass	Pass
DPT0188-033.02 10X	10/03/12	107	96	97	110	Pass	Pass	Pass	Pass
DPT0188-038.03 10X	10/03/12	102	96	97	111	Pass	Pass	Pass	Pass
DPT0188-038.03 20X	10/03/12	103	93	99	106	Pass	Pass	Pass	Pass
DPT0188-043.03	10/03/12	105	91	95	110	Pass	Pass	Pass	Pass
DPT0188-058.03 10X	10/03/12	102	93	101	102	Pass	Pass	Pass	Pass
DPT0188-058.03	10/03/12	98	88	100	109	Pass	Pass	Pass	Pass
DPT0174-053.03	10/03/12	98	85	105	105	Pass	Pass	Pass	Pass
DPT0174-053.03 10X	10/03/12	104	91	98	105	Pass	Pass	Pass	Pass
DPT0174-058.03	10/03/12	104	88	100	106	Pass	Pass	Pass	Pass
DPT0190-028.03	10/03/12	97	81	101	108	Pass	Pass	Pass	Pass
DPT0190-033.03	10/03/12	118	89	97	111	Pass	Pass	Pass	Pass
BLANK	10/03/12	107	86	100	106	Pass	Pass	Pass	Pass
DPT0190-038.03	10/03/12	115	100	102	106	Pass	Pass	Pass	Pass
DPT0190-043.03	10/03/12	141	110	98	102	> UCL	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George/Greg Lamb
Site: CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 10/2/12-10/5/12, 10/16/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
DPT0190-058.03	10/03/12	97	86	97	105	Pass	Pass	Pass	Pass
DPT0190-058.03 MS	10/03/12	93	86	95	91	Pass	Pass	Pass	Pass
DPT0190-058.03 MSD	10/03/12	129	119	94	98	> UCL	Pass	Pass	Pass
DPT0191-028.03	10/03/12	101	83	101	103	Pass	Pass	Pass	Pass
DPT0191-033.03	10/03/12	102	90	93	105	Pass	Pass	Pass	Pass
DPT0191-038.03	10/03/12	105	85	97	108	Pass	Pass	Pass	Pass
DPT0191-043.03	10/03/12	101	92	98	98	Pass	Pass	Pass	Pass
DPT0191-058.03	10/03/12	107	92	99	102	Pass	Pass	Pass	Pass
DPT0149-058.03	10/03/12	121	98	97	105	Pass	Pass	Pass	Pass
DPT0189-018.03	10/03/12	139	87	98	108	> UCL	Pass	Pass	Pass
DPT0189-023.03	10/03/12	100	90	96	100	Pass	Pass	Pass	Pass
DPT0189-028.03	10/03/12	117	86	97	102	Pass	Pass	Pass	Pass
DPT0189-033.03	10/03/12	105	87	97	103	Pass	Pass	Pass	Pass
DPT0189-038.03	10/03/12	102	80	95	109	Pass	Pass	Pass	Pass
DPT0189-043.03	10/03/12	120	81	95	103	Pass	Pass	Pass	Pass
DPT0189-058.03	10/03/12	96	80	97	106	Pass	Pass	Pass	Pass
DPT0189-058.03 MS	10/03/12	13	88	96	88	< LCL	Pass	Pass	Pass
DPT0189-058.03 MSD	10/03/12	103	84	93	89	Pass	Pass	Pass	Pass
CCS 20	10/03/12	106	94	93	91	Pass	Pass	Pass	Pass
BLANK	10/04/12	98	78	108	108	Pass	Pass	Pass	Pass
CCS 20	10/04/12	124	92	99	91	Pass	Pass	Pass	Pass
LCS 20	10/04/12	96	88	97	93	Pass	Pass	Pass	Pass
BLANK	10/04/12	86	73	89	88	Pass	< LCL	Pass	Pass
DPT0192-018.04	10/04/12	61	52	94	96	< LCL	< LCL	Pass	Pass
DPT0192-023.04	10/04/12	94	82	98	111	Pass	Pass	Pass	Pass
DPT0192-028.04	10/04/12	97	80	98	104	Pass	Pass	Pass	Pass
DPT0192-033.04	10/04/12	109	94	99	105	Pass	Pass	Pass	Pass
DPT0192-038.04	10/04/12	97	84	96	102	Pass	Pass	Pass	Pass
DPT0192-018.04 RE	10/04/12	126	93	96	100	> UCL	Pass	Pass	Pass
DPT0192-018.04 MS	10/04/12	100	95	90	89	Pass	Pass	Pass	Pass
DPT0192-018.04 MSD	10/04/12	130	106	97	88	> UCL	Pass	Pass	Pass
DPT0192-043.04	10/04/12	112	87	98	106	Pass	Pass	Pass	Pass
DPT0192-058.04	10/04/12	104	92	129	103	Pass	Pass	> UCL	Pass
DPT0148-053.04 20X	10/04/12	99	99	90	101	Pass	Pass	Pass	Pass
DPT0148-058.04	10/04/12	76	93	87	95	< LCL	Pass	Pass	Pass
DPT0148-058.04 RE	10/04/12	112	85	96	98	Pass	Pass	Pass	Pass
DPT0138-053.04	10/04/12	100	94	102	108	Pass	Pass	Pass	Pass
DPT0138-058.04	10/04/12	109	91	111	100	Pass	Pass	Pass	Pass
DPT0010-053.04	10/04/12	107	87	100	98	Pass	Pass	Pass	Pass
DPT0010-058.04	10/04/12	105	87	96	97	Pass	Pass	Pass	Pass
DPT0044-058.04	10/04/12	100	85	94	95	Pass	Pass	Pass	Pass
DPT0158-053.04	10/04/12	117	112	93	98	Pass	Pass	Pass	Pass
DPT0158-058.04	10/04/12	107	95	107	112	Pass	Pass	Pass	Pass
DPT0193-069.04	10/04/12	106	93	94	102	Pass	Pass	Pass	Pass
CCS 20	10/04/12	123	88	94	86	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George/Greg Lamb
Site: CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 10/2/12-10/5/12, 10/16/12	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	10/05/12	98	75	99	104	Pass	Pass	Pass	Pass
CCS 20	10/05/12	108	94	98	94	Pass	Pass	Pass	Pass
LCS 20	10/05/12	104	98	104	109	Pass	Pass	Pass	Pass
BLANK	10/05/12	106	93	100	111	Pass	Pass	Pass	Pass
DPT0194-053.05	10/05/12	134	107	97	101	> UCL	Pass	Pass	Pass
DPT0194-053.05	10/05/12	135	83	98	99	> UCL	Pass	Pass	Pass
DPT0194-053.05 MS	10/05/12	94	87	98	96	Pass	Pass	Pass	Pass
DPT0194-053.05 MSD	10/05/12	131	86	95	94	> UCL	Pass	Pass	Pass
DPT0194-058.05	10/05/12	106	98	95	105	Pass	Pass	Pass	Pass
DPT0195-053.05	10/05/12	107	89	92	98	Pass	Pass	Pass	Pass
DPT0195-058.05	10/05/12	111	89	108	98	Pass	Pass	Pass	Pass
DPT0044-068.05	10/05/12	103	81	94	96	Pass	Pass	Pass	Pass
DPT0155-058.05	10/05/12	105	89	98	108	Pass	Pass	Pass	Pass
DPT0171-058.05	10/05/12	98	76	98	100	Pass	Pass	Pass	Pass
DPT0127-058.05	10/05/12	100	79	93	101	Pass	Pass	Pass	Pass
IDW1905154	10/05/12	106	86	80	85	Pass	Pass	< LCL	Pass
CCS 20	10/05/12	120	83	94	93	Pass	Pass	Pass	Pass
CCS 20	10/16/12	108	109	92	108	Pass	Pass	Pass	Pass
LCS 20	10/16/12	101	105	90	108	Pass	Pass	Pass	Pass
BLANK	10/16/12	108	98	96	116	Pass	Pass	Pass	Pass
DPT0125-058.0	10/16/12	98	92	93	117	Pass	Pass	Pass	Pass
DPT0089-058.0 Not reported	10/16/12	108	108	90	115	Pass	Pass	Pass	Pass
DPT0195-058.0 (DPT0089)	10/16/12	84	82	84	111	Pass	Pass	< LCL	Pass
DPT0089-058.0 MS	10/16/12	118	115	89	110	Pass	Pass	Pass	Pass
DPT0089-058.0 MSD	10/16/12	93	109	85	114	Pass	Pass	< LCL	Pass
CCS 20	10/16/12	113	115	92	109	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George/Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-163
Onsite Dates: 10/2/12-10/5/12, 10/16/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: DPT0185-028.0 **Date of Analysis:** 10/2/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	122	122	1	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	109	108	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	105	102	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	95	128	30	Pass	Pass	> RPDL
Trichloroethene	67	128	20	87	87	0	Pass	Pass	Pass
Tetrachloroethene	60	140	20	95	98	3	Pass	Pass	Pass

Note: Control Limits are based on a semi- 0

Samples: DPT0190-058.0 **Date of Analysis:** 10/3/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	117	112	4	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	99	109	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	93	101	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	156	181	15	> UCL	> UCL	Pass
Trichloroethene	67	128	20	91	91	0	Pass	Pass	Pass
Tetrachloroethene	60	140	20	111	129	15	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: DPT0189-058.0 **Date of Analysis:** 10/3/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	71	79	11	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	75	84	11	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	72	74	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	88	86	2	Pass	Pass	Pass
Trichloroethene	67	128	20	81	82	1	Pass	Pass	Pass
Tetrachloroethene	60	140	20	94	96	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: DPT0192-018.0 **Date of Analysis:** 10/4/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	81	64	24	Pass	Pass	> RPDL
1,1-Dichloroethene	62	136	20	94	75	22	Pass	Pass	> RPDL
Trans-1,2-Dichloroethene	63	131	20	86	73	16	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	184	153	19	> UCL	> UCL	Pass
Trichloroethene	67	128	20	103	83	21	Pass	Pass	> RPDL
Tetrachloroethene	60	140	20	116	98	16	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George/Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-163
Onsite Dates: 10/2/12-10/5/12, 10/16/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Samples: DPT0194-053.0 **Date of Analysis:** 10/4/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	126	123	3	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	109	113	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	102	107	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	94	142	41	Pass	> UCL	> RPDL
Trichloroethene	67	128	20	111	114	3	Pass	Pass	Pass
Tetrachloroethene	60	140	20	134	135	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: DPT0089-058.0 **Date of Analysis:** 10/16/2012

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	117	94	21	Pass	Pass	> RPDL
1,1-Dichloroethene	62	136	20	114	73	43	Pass	Pass	> RPDL
Trans-1,2-Dichloroethene	63	131	20	107	77	33	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	67	131	20	126	94	29	Pass	Pass	> RPDL
Trichloroethene	67	128	20	137	118	15	> UCL	Pass	Pass
Tetrachloroethene	60	140	20	132	113	16	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George/Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-163
Onsite Dates: 10/2/12-10/5/12, 10/16/12	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 10/2/2012
LCS 2 10/3/2012
LCS 3 10/4/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	58	to	135	84	126	76	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	80	111	78	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	80	108	73	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	77	100	82	Pass	Pass	Pass
Trichloroethene	68	to	128	76	99	96	Pass	Pass	Pass
Tetrachloroethene	67	to	135	87	112	109	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:** 10/5/2012
LCS 5 10/16/2012

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5		LCS#4	LCS#5	
Vinyl Chloride	58	to	135	100	94		Pass	Pass	
1,1-Dichloroethene	60	to	141	87	69		Pass	Pass	
Trans-1,2-Dichloroethene	62	to	133	79	69		Pass	Pass	
Cis-1,2-Dichloroethene	62	to	140	107	77		Pass	Pass	
Trichloroethene	68	to	128	116	99		Pass	Pass	
Tetrachloroethene	67	to	135	145	99		> UCL	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0185-018.0-20121002	10/2/2012	0911	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0185-023.0-20121002	10/2/2012	0921	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0185-028.0-20121002	10/2/2012	0937	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0185-033.0-20121002	10/2/2012	0949	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0185-038.0-20121002	10/2/2012	1004	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0185-043.0-20121002	10/2/2012	1022	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0185-058.0-20121002	10/2/2012	1047	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0186-028.0-20121002	10/2/2012	1212	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0186-033.0-20121002	10/2/2012	1227	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0186-038.0-20121002	10/2/2012	1240	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0186-043.0-20121002	10/2/2012	1257	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0186-058.0-20121002	10/2/2012	1314	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0187-028.0-20121002	10/2/2012	1349	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0187-033.0-20121002	10/2/2012	1403	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0187-038.0-20121002	10/2/2012	1418	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0187-043.0-20121002	10/2/2012	1457	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0187-058.0-20121002	10/2/2012	1517	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0188-028.0-20121002	10/2/2012	1559	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0188-033.0-20121002	10/2/2012	1613	Water	1, 10	**420**	<1.0	**10.5**	**100**	<1.0	<1.0
CRHE-DPT0188-038.0-20121003	10/3/2012	0814	Water	10, 20	**800**	<10	**26**	**990**	<10	<10
CRHE-DPT0188-043.0-20121003	10/3/2012	0832	Water	20	**1100**	<20	**27**	**2000**	<20	<20
CRHE-DPT0188-058.0-20121003	10/3/2012	0850	Water	1	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0
CRHE-DPT0174-053.0-20121003	10/3/2012	0952	Water	1, 10	**76**	<1.0	**3.5**	**170**	<1.0	<1.0
CRHE-DPT0174-058.0-20121003	10/3/2012	1017	Water	1	<1.0	<1.0	<1.0	**3.8**	<1.0	<1.0
CRHE-DPT0190-028.0-20121003	10/3/2012	1054	Water	1	**22.1**	<1.0	<1.0	**14.9**	<1.0	<1.0
CRHE-DPT0190-033.0-20121003	10/3/2012	1107	Water	1	**34.0**	<1.0	<1.0	**13.5**	<1.0	<1.0
CRHE-DPT0190-038.0-20121003	10/3/2012	1122	Water	1	**8.7**	<1.0	<1.0	**1.0**	<1.0	<1.0
CRHE-DPT0190-043.0-20121003	10/3/2012	1134	Water	1	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0190-058.0-20121003	10/3/2012	1152	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0191-028.0-20121003	10/3/2012	1329	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0191-033.0-20121003	10/3/2012	1344	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0191-038.0-20121003	10/3/2012	1359	Water	1	**3.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0191-043.0-20121003	10/3/2012	1420	Water	1	**73.9**	<1.0	**1.4**	**7.4**	<1.0	<1.0
CRHE-DPT0191-058.0-20121003	10/3/2012	1437	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0149-058.0-20121003	10/3/2012	1517	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0189-018.0-20121003	10/3/2012	1546	Water	1	**3.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0189-023.0-20121003	10/3/2012	1558	Water	1	**5.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0189-028.0-20121003	10/3/2012	1629	Water	1	**55.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0189-033.0-20121003	10/3/2012	1640	Water	1	**62.7**	<1.0	<1.0	**3.5**	<1.0	<1.0
CRHE-DPT0189-038.0-20121003	10/3/2012	1654	Water	1	**11.1**	<1.0	<1.0	**2.0**	<1.0	<1.0
CRHE-DPT0189-043.0-20121003	10/3/2012	1706	Water	1	**4.2**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0189-058.0-20121003	10/3/2012	1720	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-018.0-20121004	10/4/2012	0820	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-023.0-20121004	10/4/2012	0832	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-028.0-20121004	10/4/2012	0842	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-033.0-20121004	10/4/2012	0855	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-038.0-20121004	10/4/2012	0908	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-043.0-20121004	10/4/2012	0925	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0192-058.0-20121004	10/4/2012	0944	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0148-053.0-20121004	10/4/2012	1216	Water	20	**370**	<20	**13 I**	**750**	<20	<20
CRHE-DPT0148-058.0-20121004	10/4/2012	1233	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report
NASA CRHE
KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0138-053.0-20121004	10/4/2012	1332	Water	1	**5.0**	<1.0	<1.0	**1.5**	<1.0	<1.0
CRHE-DPT0138-058.0-20121004	10/4/2012	1346	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0010-053.0-20121004	10/4/2012	1435	Water	1	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0010-058.0-20121004	10/4/2012	1454	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0044-058.0-20121004	10/4/2012	1529	Water	1	**28.3**	<1.0	<1.0	**51.7**	<1.0	<1.0
CRHE-DPT0158-053.0-20121004	10/4/2012	1616	Water	1	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0158-058.0-20121004	10/4/2012	1636	Water	1	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0193-069.0-20121004	10/4/2012	1744	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0194-053.0-20121005	10/5/2012	1106	Water	1	**3.3**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0194-058.0-20121005	10/5/2012	1128	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0195-053.0-20121005	10/5/2012	1210	Water	1	**5.9**	<1.0	<1.0	**6.1**	<1.0	<1.0
CRHE-DPT0195-058.0-20121005	10/5/2012	1225	Water	1	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
CRHE-DPT0044-068.0-20121005	10/5/2012	1329	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0155-058.0-20121005	10/5/2012	1454	Water	1	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0171-058.0-20121005	10/5/2012	1559	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-DPT0127-058.0-20121005	10/5/2012	1715	Water	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CRHE-IDW190515-20121005	10/5/2012	0000	Water	1	**1.9**	<1.0	<1.0	**2.2**	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Samplel ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0089-058.0-20121016	10/16/2012	0836	Water	1	**2.0**	<1.0	<1.0	**4.7**	<1.0	<1.0
CRHE-DPT0125-058.0-20121016	10/16/2012	0920	Water	1	<1.0	<1.0	<1.0	**5.1**	<1.0	<1.0

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRHE KSC, FL
SAMPLERS	**CONTACT PERSON** / **BATCH # (Lab Use Only)**

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER KB3-100212	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRHE-DPT0185-018.0	10/2/12	0911			10/2/12	0952		GW	2	✓	
-DPT0185-023.0		0921				0952		GW	2	✓	
-DPT0185-028.0		0937				0952		GW	2	✓	
DPT0185-033.0		0949				1123		GW	2	✓	
DPT0185-038.0		1004				1123		GW	2	✓	
DPT0185-043.0		1022				1123		GW	2	✓	
DPT0185-048.0		1047				1123		GW	2	✓	
DPT0186-029.0		1212				1330		GW	2	✓	
DPT0186-033.0		1227				1330		GW	2	✓	
DPT0186-038.0		1240				1330		GW	2	✓	
DPT0186-043.0		1257				1330		GW	2	✓	
DPT0186-048.0		1314				1330		GW	2	✓	
DPT0187-028.0		1349				1517		GW	2	✓	
DPT0187-033.0		1403				1517		GW	2	✓	
DPT0187-038.0		1418				1517		GW	2	✓	

	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Precleaned Containers / Relinquished by: *(Signature)*				
Relinquished by: *(Signature)*		Received by: *(Signature)*	10/2/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

2/2

Mobile Laboratory Services

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Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # FB3

CLIENT NAME	PROJECT NAME & ADDRESS																	
Geosyntec	CRHE KSC, FL																	
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)											
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES						COMMENT / SAMPLE PRE FIX		
FB3-100212										IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS								
CHRE-DPT0187-043.0	10/2/12	1457			10/2/12	157		GW	2	✓								
DPT0187-055.0	"	1517			"	1633		GW	2	✓								
DPT0188-028.0	"	1559			"	1633		GW	2	✓								
DPT0188-033.0	"	1613			"	1633		GW	2	✓								

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
		[signature]	10/2/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES				COMMENT / SAMPLE PRE FIX
KB3-100312														
DPT0188-038.0	10/3/12	0814			10/3/12	0940		GW	2	V				CRHE -
-043.0		0832				0940								
-058.0		0850				0940								
DPT0174-053.0		0952				1127								
-058.0		1017				1127								
DPT0150-028.0		1054				1127								
-033.0		1107				1127								
-038.0		1122				1340								
-043.0		1134				1340								
-058.0		1152				1340								
DPT0191-028.0		1329				1515								
-033.0		1344				195								
-038.0		1359				1515								
-043.0		1420				1515								
-058.0		1437				1515								

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: *(Signature)*	Date / Time
Precleaned Containers Relinquished by: *(Signature)*			
Relinquished by: *(Signature)*		Received by: *(Signature)*	Date / Time 10/3/12

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

2/2

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES					COMMENT / SAMPLE PRE FIX
DPT0149-058.0	10/3/12	1517			10/3/12	1707		GW	2	V					
DPT0189-018.0		1546				1707									
-023.0		1558				1707									
-028.0		1629				1707									
-033.0		1640				1707									
-038.0		1654				1707									
-043.0		1706				1750									
-058.0		1720				1750									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/3/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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1/

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: NASA - CRHE KSC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)				COMMENT / SAMPLE PRE FIX
KB3 - 100412														
DPT 0192 - 018.0	10/4/12	0820		✓	10/4/12	0930		GW	2	✓				CRHE -
- 023.0		0832				0930								
- 028.0		0842				0930								
- 033.0		0855				0930								
- 038.0		0908				0930								
- 043.0		0925				1225								
- 058.0		0944				1225								
DPT 0148 - 053.0		1216				1225								
- 058.0		1233				1330								
DPT 0138 - 053.0		1332				1730								
- 058.0		1346												
0010 - 053.0		1435												
- 058.0		1454												
0044 - 058.0		1529												
0158 - 053.0		1616												

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/4/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Cary, NC 27513
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MOBILE UNIT #

CLIENT NAME: GeoSynTec

PROJECT NAME & ADDRESS: KSC CRHE

SAMPLERS:

CONTACT PERSON: Meghan

BATCH # (Lab Use Only):

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0158-058.0	10/4/12	1636		✓	10/4/12	1730		GW	2	✓	
DPT0193-069.0		1744				1800		↓	↓	↓	

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/4/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: KCRHQ KSL

SAMPLERS

CONTACT PERSON: Rachel

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES (IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS)	COMMENT / SAMPLE PRE FIX
DPT 0194-053.0 2012	10/5	1106			10/5/12	1120		W	2	✓	
0194 058.0		1128				1130					
0195-053.0		1210				1225					
0195 058.0		1225				↓					
0044-068.0		1329		✓		1400					
0155-058.0		1454				1510					
0171-058.0		1559				1630					
0127-058.0		1715				1725					
FDW 190515	↓				↓	1830		↓	↓	↓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/5/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/1

Mobile Laboratory Services

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Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES				COMMENT / SAMPLE PRE FIX
KB3-101612														
V2-DPT 095-0580	10/4/12	0836			10/4/12	1115		GW	2	✓				CRHE -
V4-DPT 025-0580	1	0920			1	1115		GW	2	✓				
V3-DPT 089-0580	1	1011			1	1115		GW	2	✓				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 10/16/12	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

New Age/Landmark, Inc.
Mobile Laboratory Services

April 23, 2013

Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502
ATTN: Ms. Jill Johnson

SUBJECT: NARRATIVE FOR PROJECT NAL13-041, NASA, Kennedy Space Center.

Dear Ms. Johnson,

Enclosed is the final report containing the analytical results for the mobile laboratory services provided for Geosyntec Consultants, Kennedy Space Center site, Florida. The report consists of 587 pages inclusive of all sample results, QC analyses, chains of custody, and this cover letter.

New Age/Landmark, Inc. certifies that to our best knowledge this data package is in compliance with the terms and conditions of the contract, both technically and for completeness and that test results meet all requirements of New Age/Landmark's Quality Assurance Manual. Release of the data has been authorized by the laboratory's president or his designee.

Volatile analysis of samples was performed utilizing USEPA Method 8260B on a Purge and Trap system coupled with a Hewlett Packard 5890 GC/MS. All water samples are reported in µg/L (ppb). Reporting limits reflect any sample dilutions that may have been performed.

Please review the report and contact our office if you have any questions or need additional information. Thank you for choosing New Age/Landmark, Inc. for this important project. We look forward to working with you again in the future.

Sincerely,
New Age/Landmark, Inc.

Scott D. Wall
President

Maria C. Paraschivescu
QA/QC Officer

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Client Name & Project Name: ~~CHE~~ FR1681 Geosyntec Consultants

Project No.: FR1681

Project Contact: Laurel Petty / Jill Johnson

Phone Number: 832-445 5614 / 904 591 4016

Project Location: Contractors Rd / KSC

Types of Analysis: VOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5201

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	VOC	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	~~CRHE-DPT0196-0100-20130318~~ CRHE-DPT0196-0100-20130318	3/18/13	1007			2	X	N	N	A		NAL 13041-001
2	CRHE-DPT0196-018.0-20130318	3/18/13	1020			2	X	N	N	A		NAL -002
3	CRHE-DPT0196-023.0-20130318	3/18/13	1031			2	X	N	N	A		NAL -003
4	CRHE-DPT0196-028.0-20130318	3/18/13	1046			2	X	N	N	A		NAL -004
5	CRHE-DPT0196-033.0-20130318	3/18/13	1059			2	X	N	N	A		NAL -005
6	CRHE-DPT0196-036.0-20130318	3/18/13	1118			2	X	N	N	A		NAL -006
7	CRHE-DPT0196-043.0-20130318	3/18/13	1134			2	X	N	N	A		NAL 007
8	CRHE-DPT0196058.0-20130318	3/18/13	1152			2	X	N	N	A		NAL -008
9	CRHE-DPT0197-010.0-20130318	3/18/13	1300			2	X	N	N	A		NAL -009
10	CRHE-DPT0197-018.0-20130318	3/18/13	1311			2	X	N	N	A		NAL -010

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1–10	Crystal Towns / Geosyntec	Celeste E Wheeler	3/18/13	1430
2					
3					
4					

Remarks (for lab use only): Recieved in acceptable condition. CEW 3/18/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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CRHE/FR1681

Client Name & Project Name: Geosyntec Consultants

Project No.: FR1681

Project Contact: Lauren Petty / Jill Johnson

Phone Number: 832 265 5614 / 904 521 4076

Project Location: Contractors Rd / KSC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5202

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: VOC	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0197-023.0-20130318	3/18/13	1324			2	X	N	N	A		NAL 1304 1-011
2	CRHE-DPT0197-028.0-20130318	3/18/13	1334			2	X	N	N	A		NAL -012
3	CRHE-DPT0197-033.0-20130318	3/18/13	1349			2	X	N	N	A		NAL -013
4	CRHE-DPT0197-038.0-20130318	3/18/13	1400			2	X	N	N	A		NAL -014
5	CRHE-DPT0197-043.0-20130318	3/18/13	1424			2	X	N	N	A		NAL -015
6												NAL -
7												NAL -
8												NAL -
9												NAL -
10												NAL -

CEW 3/18/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-5	Crystal Towns/Geosyntec	Celeste E Wheeler	3/18/13	1430
2					
3					
4					

Remarks (for lab use only)
Received in acceptable condition.
CEW 3/18/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec Consultants / CRHE FR1681

Project No.: FR1681

Project Contact: Lauren Petty / Jill Johnson lpetty@geosyntec.com / JJohnson@geosyntec.com

Phone Number: ~~850-(illegible)~~ 832-2655614 / 904-591-4076

Project Location: Contractors Rd / KSC

Types of Analysis: 8260B-CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5252

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0197-058.0-20130318	3/18/13	1446		X	2	N	N	A		NAL 43041-016
2	CRHE-DPT0198-010.0-20130318	3/18/13	1526		X	2					NAL -017
3	CRHE-DPT0198-018.0-20130318	3/18/13	1538		X	2					NAL -018
4	CRHE-DPT0198-023.0-20130318	3/18/13	1548		X	2					NAL -019
5	CRHE-DPT0198-028.0-20130318	3/18/13	1600		X	2					NAL -020
6	CRHE-DPT0198-033.0-20130318	3/18/13	1611		X	2					NAL -021
7	CRHE-DPT0198-038.0-20130318	3/18/13	1623		X	2					NAL -022
8	CRHE-DPT0198-043.0-20130318	3/18/13	1638		X	2					NAL -023
9	~~CRHE~~ CR CRHE-DPT0198-058.0-20130318	3/18/13	1655		X	2					NAL -024
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-9	Crystal Towns / Geosyntec	Colyte E. Mahan	3/18/13	1702
2					
3					
4					

Remarks (for lab use only): Delivered in acceptable condition

Crystal Towns
Sampler's Signature

Crystal Towns
Print Name

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Client Name & Project Name: CRHE

Project No.: FR1681/25*2

Project Contact: Lauren Petty lpetty@geosyntecom

Phone Number: 832-265-(cell) 5614

Project Location: KSC-CRHE

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5253

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0199-010.0-20130319	3/19/13	0753		X	2	N	Y	A		NAL 13041-025
2	CRHE-DPT0199-018.0-20130319		0804								NAL -026
3	CRHE-DPT0199-023.0-20130319		0818								NAL -027
4	CRHE-DPT0199-028.0-20130319		0830								NAL -028
5	CRHE-DPT0199-033.0-20130319		0844								NAL -029
6	CRHE-DPT0199-038.0-20130319		0857								NAL -030
7	CRHE-DPT0199-043.0-20130319		0912								NAL -031
8	CRHE-DPT0199-058.0-20130319		093								NAL -032
9											NAL -
10							CRW	3/19/13			NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Crystal Towns/Geosyntec	Robert E. Nhuch	3/19/13	0935
2					
3					
4					

Remarks (for lab use only): Recieved in acceptable condition CRW 3/19/13

Sampler's Signature: Crystal Towns

Print Name

COCs rev.5 Date: 2/27/08 Copyright © 2008 All Rights Reserved

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Client Name & Project Name: CRHE

Project No.: FRL601/25*2

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number: 832-265-5614

Project Location: KSC

Types of Analysis: 8260B-CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

Nº 5254

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260B-CVOCs	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0200-010.0-20130319	3/19/13	1011		X	2	X	N	Y	A		NAL 13041-033
2	CRHE-DPT0200-018.0-20130319		1021									NAL 034
3	CRHE-DPT0200-023.0-20130319		1036									NAL 035
4	CRHE-DPT0200-028.0-20130319		1047									NAL -036
5	CRHE-DPT0200-033.0-20130319		1102									NAL -037
6	CRHE-DPT0200-038.0-20130319		1118									NAL -038
7	CRHE-DPT0200-043.0-20130319		1134									NAL -039
8	CRHE-DPT0200-058.0-20130319		1152									NAL -040
9	CRHE-DPT0201-010.0-20130319		1258									NAL -041
10	CRHE-DPT0201-018.0-20130319		~~1324~~ CRW									NAL -042

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns/geosyntec	Celeste E. Wheeler	3/19/13	1345
2					
3					
4					

Remarks (for lab use only): Recieved in acceptable condition CRW

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR-1681

Project Contact: Lauren Petty LPetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B - CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5255

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	8260B - CVOC	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0201-023.0-20130319	3/19/13	1324		X	2	X	N	Y	A		NAL 13041-043
2												NAL -
3												NAL -
4												NAL -
5												NAL -
6												NAL -
7												NAL -
8												NAL -
9												NAL -
10												NAL -

CRW 3/19/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1	Crystal Towns / Geosyntec	Christe E. Wilson	3/19/13	1345
2					
3					
4					

Remarks (for lab use only): Recieved in acceptable condition CRW

Sampler's Signature: Crystal Towns

Print Name:

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Client Name & Project Name: Geosyntec / CRHF

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B-VOCS

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Nº 5256

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	8260B-VOCS	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0201-028.0-20130319	3/19/13	1331		X	2	X	N	Y	A		NAL 1204-045
2	CRHE-DPT0201-033.0-20130319		1349									NAL -045
3	CRHE-DPT0201-038.0-20130319		1402									NAL -046
4	CRHE-DPT0201-043.0-20130319		1417									NAL -047
5	CRHE-DPT0201-058.0-20130319		1434									NAL -048
6	CRHE-DPT0196-068.0-20130319		1539									NAL -049
7												NAL -
8												NAL -
9												NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-6	Crystal Towns / Geosyntec	Celeste E Wheeler	3/19/13	1539
2					
3					
4					

Remarks (for lab use only): Delivered in acceptable condition CEW

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5257

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0202-010.0-20130320	~~3/20/13~~ (3/21/13)	0810		X	2	N	Y	A		NAL 13041-050
2	CRHE-DPT0202-018.0-20130320	3/20/13	0820								NAL -051
3	CRHE-DPT0202-023.0-20130320		0830								NAL -052
4	CRHE-DPT0202-028.0-20130320		0842								NAL -053
5	CRHE-DPT0202-033.0-20130320		0856								NAL -054
6	CRHE-DPT0202-038.0-20130320		0910								NAL -055
7	CRHE-DPT0202-043.0-20130320		0925								NAL -056
8								CEW 3/20/13			NAL -
9											NAL -
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-7	Crystal Towns/Geosyntec	Celest. E Wheeler	3/20/13	0930
2					
3					
4					

Remarks (for lab use only): Received in acceptable condition CEW

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5258

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	8260B CVOCs	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0202-058.0-20130320	3/20/13	0941		X	2	X	N	Y	A		NAL 13041 - 057 (058)
2	CRHE-DPT0203-010.0-20130320		1256				X					NAL - 058
3	CRHE-DPT0203-018.0-20130320		1308				X					NAL - 059
4	CRHE-DPT0203-023.0-20130320		1318				X					NAL - 060
5	CRHE-DPT0203-028.0-20130320		1330				X					NAL - 061
6	CRHE-DPT0203-033.0-20130320		1342				X					NAL - 062
7												NAL -
8												NAL -
9												NAL -
10												NAL -

COC 3/20/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-6	Crystal Toms / Geosyntec	Collette E Wheeler	3/20/13	1350
2					
3					
4					

Remarks (for lab use only): Recieved in acceptable Condition

Sampler's Signature: Crystal Toms

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
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№ 5259

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	8260B CVOCs	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0203-038.0-20130320	3/20/13	1357		X	2	X	N	Y	A		NAL 13241-063
2	CRHE-DPT0203-043.0-20130320		1411									NAL -064
3	CRHE-DPT0203-058.0-20130320		1428									NAL -065
4	CRHE-DPT0204-010.0-20130320		1512									NAL -066
5	CRHE-DPT0204-018.0-20130320		1523									NAL -067
6	CRHE-DPT0204-023.0-20130320		1533									NAL -068
7	CRHE-DPT0204-028.0-20130320		1543									NAL -069
8												NAL -
9											CW 3/20/13	NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-7	Crystal Towns/Geosyntec	Celeste E Wheeler	3/20/13	1600
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B VOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

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No 5260

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0204-033.0-20130321	3/21/13	0733		X	2	N	Y	A		NAL 32411-070
2	CRHE-DPT0204-038.0-20130321		0748								NAL 071
3	CRHE-DPT0204-043.0-20130321		0801								NAL 072
4	CRHE-DPT0204-058.0-20130321		0817								NAL 073
5	CRHE-DPT0205-010.0-20130321		0841								NAL 074
6	CRHE-DPT0205-018.0-20130321		0851								NAL 075
7	CRHE-DPT0205-023.0-20130321		0901								NAL 076
8	CRHE-DPT0205-028.0-20130321		0910								NAL 077
9	CRHE-DPT0205-033.0-20130321		0920								NAL 078
10	CRHE-DPT0205-038.0-20130321		0931								NAL 079

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns/Geosyntec	Christie Whelan	3/21/13	1010
2					
3					
4					

Remarks (for lab use only): Acceptable

Crystal Towns

Sampler's Signature

Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B cVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5261

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHEDPT0205-043.0-20130321	3/21/13	0944		X	2	N	Y	A		NAL 13041-080
2	CRHE-DPT0205-058.0-20130321	↓	0958		↓	↓	N	Y	A		NAL -081
3											NAL -
4											NAL -
5											NAL -
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CW3/21/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-2	Crystal Towns / Geosyntec		3/21/13	1100
2					
3					
4					

Remarks (for lab use only)
Accepted

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B (VOCs)

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

Nº 5262

Chain-of-Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0206-010.0-20130321	3/21/13	1025		X	2	N	Y	A		NAL 1324 -082
2	CRHE-DPT0206-018.0-20130321		1034								NAL -083
3	CRHE-DPT0206-023.0-20130321		1049								NAL -084
4	CRHE-DPT0206-028.0-20130321		1053								NAL -085
5	CRHE-DPT0206-033.0-20130321		1106								NAL -086
6	CRHE-DPT0206-038.0-20130321		1136								NAL -087
7	CRHE-DPT0206-043.0-20130321		1150								NAL -088
8	CRHE-DPT0206-058.0-20130321		1204								NAL -089
9	CRHE-DPT0207-010.0-20130321		1348								NAL -090
10	CRHE-DPT0207-018.0-20130321		1358								NAL -091

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Gwyn Lamb / Geosyntec	Celeste Wh	3/21/13	1613
2					
3					
4					

Remarks (for lab use only): Delivered in acceptable condition

Sampler's Signature: Gwyn Lamb

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B | COCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

No 5263

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0207-023.0-20130321	3/21/13	1409		X	2	N	Y	A		NAL 1304-092
2	CRHE-DPT0207-028.0-20130321		1419								NAL -093
3	CRHE-DPT0207-033.0-20130321		1433								NAL -094
4	CRHE-DPT0207-038.0-20130321		1446								NAL -095
5	CRHE-DPT0207-043.0-20130321		1500								NAL -096
6	CRHE-DPT0207-058.0-20130321		1515								NAL -097
7	CRHE-DPT0202-68.0-20130321		1532								NAL -098
8											NAL -
9											NAL -
10											NAL -

CEW 3/21/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-7	Geosyntec		3/21/13	1616
2					
3					
4					

Remarks (for lab use only)
Accepted

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1691

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B-CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

No 5264

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0208-010.0-20130321	3/21/13	1637		X	2	N	Y	A		NAL 1304[1] - 099
2	CRHE-DPT0208-16.0-20130321		1647								NAL 100
3	CRHE-DPT0208-023.0-20130321		1658								NAL - 101
4	CRHE-DPT0208-028.0-20130321		1710								NAL - 102
5	CRHE-DPT0208-033.0-20130321		1723								NAL - 103
6	~~IDW~~ CRHE-IDW193558-20130321		1753								NAL 104
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CRW 3/21/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-6	Crystal Towns/Geosyntec	Celeste Miller	3/21/13	1800
2					
3					
4					

Remarks (for lab use only)
Delivered in acceptable condition CRW

Sampler's Signature: Crystal Towns

Print Name:

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5265

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0208-038.0-20130322	3/22/13	0739		X	2	N	Y	A		NAL 13041105
2	CRHE-DPT0208-043.0-20130322		0752								NAL -106
3	CRHE-DPT0208-058.0-20130322		0811								NAL -107
4	CRHE-DPT0209-010.0-20130322		0903								NAL -125
5	CRHE-DPT0209-018.0-20130322		0913								NAL -109
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-5	Crystal Towns / Geosyntec	Alisha E Wheeler	3/22/13	0915
2					
3					
4					

Remarks (for lab use only)
Delivered in acceptable condition

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5266

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0209-023.0-20130322	3/22/13	0923		X	2	N	Y	A		NAL 13041-110
2	CRHE-DPT-0209-028.0-20130322		0933								NAL -111
3	CRHE-DPT0209-033.0-20130322		0944								NAL -112
4	CRHE-DPT0209-038.0-20130322		0957								NAL -113
5	CRHE-DPT0209-043.0-20130322		1012								NAL -114
6	CRHE-DPT0209-058.0-20130322		1029								NAL -115
7	CRHE-DPT0210-010.0-20130322		1104								NAL -116
8	CRHE-DPT0210-018.0-20130322		1113								NAL -117
9	CRHE-DPT0210-023.0-20130322		1122								NAL -118
10	CRHE-DPT0210-028.0-20130322		1131								NAL -119

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns / Geosyntec	Client SUB	3/22/13	1215
2					
3					
4					

Remarks (for lab use only)

Acceptable CEW 3/22/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty / lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B, VOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5267

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0210-033.0-20130322	3/22/13	1141		X	2	N	Y	A		NAL 13041-120
2	CRHE-DPT0210-038.0-20130322	"	1152		"	"	"	"	"		NAL -121
3	CRHE-DPT0210-043.0-20130322	"	1204		"	"	"	"	"		NAL -122
4	CRHE-DPT0210-058.0-20130322	"	1219		"	"	"	"	"		NAL -123
5											NAL -
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CEW 3/22/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-4	Crystal Towns / Geosyntec	Celeste E. Wheeler	3/22/13	1215
2					
3					
4					

Remarks (for lab use only): Acceptable CEW 3/22/13

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR7681

Project Contact: Lauren Petty

Phone Number: lpetty@geosyntec.com

Project Location: KSC

Types of Analysis: 8260B CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

Nº 5268

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0211-010.0-20130322	3/22/13	1246		X	2	N	Y	A		NAL 1304-124
2	CRHE-IDW193860-20130322	3/22/13	1628		↓	↓	↓	↓	↓		NAL -125
3											NAL -
4											NAL -
5											NAL -
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

COC 3/22/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-2	Crystal Towns/Geosyntec	Calvert E Whyte	3/22/13	1634
2					
3					
4					

Remarks (for lab use only): Delivered in acceptable condition

Crystal Towns

Sampler's Signature: Crystal Towns

Print Name:

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 82603 CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5269

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0211-018.0-20130325	3/25/13	0810		X	2	N	Y	A		NAL 1304/-~~07~~/26
2	CRHE-DPT0211-023.0-20130325		0821								NAL -127
3	CRHE-DPT0211-028.0-20130325		0831								NAL -128
4	CRHE-DPT0211-033.0-20130325		0844								NAL -129
5	CRHE-DPT0211-038.0-20130325		0856								NAL -130
6	CRHE-DPT0211-043.0-20130325		0910								NAL -131
7	CRHE-DPT0211-058.0-20130325		0928								NAL -132
8											NAL -
9							CEW			3/25/13	NAL -
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-7	Crystal Towns / Geosyntec	Celeste Wheeler	3/25/13	0930
2					
3					
4					

Remarks (for lab use only)
Delivered in acceptable condition.
CEW 3/25/13

Sampler's Signature

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

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Mobile Laboratory Services

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№ 5270

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260B VOC	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0212-010.0-20130325	3/25/13	0951		X	2	X	N	Y	A		NAL 1341-133
2	CRHE-DPT0212-018.0-20130325		1006									NAL -134
3	CRHE-DPT0212-023.0-20130325		1016									NAL -135
4	CRHE-DPT0212-028.0-20130325		1026									NAL -136
5	CRHE-DPT0212-033.0-20130325		1038									NAL -137
6	CRHE-DPT0212-038.0-20130325		1053									NAL -138
7	CRHE-DPT0212-043.0-20130325		1108									NAL -139
8	CRHE-DPT0212-0580-20130325		1125									NAL -140
9	CRHE-DPT0213-010.0-20130325		1156									NAL -141
10	CRHE-DPT0213-018.0-20130325		1205									NAL -142

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns/Geosyntec	Celeste Wh	3/25/13	1419
2					
3					
4					

Remarks (for lab use only)
Acceptable

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: LaurenPetty

Phone Number: lpetty@geosyntec.com

Project Location: KSC

Types of Analysis: 8260B, CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5271

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0213-023.0-20130325	3/25/13	1214		X	2	N	Y	A		NAL 1344 143
2	CRHE-DPT0213-028.0-20130325		1310								NAL -144
3	CRHE-DPT0213-033.0-20130325		1323								NAL -145
4	CRHE-DPT0213-038.0-20130325		1334								NAL -146
5	CRHE-DPT0213-043.0-20130325		1347								NAL -147
6	CRHE-DPT0213-058.0-20130325		1403								NAL -148
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CEW 3/25/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-6	Crysta L. Towns / Geosyntec	Crysta L. Towns	3/25/13	1419
2					
3					
4					

Remarks (for lab use only): Acceptable

Crysta L Towns
Sampler's Signature

Crysta L Towns
Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5272

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0214-010.0-20130325	3/25/13	1434		X	2	N	Y	A		NAL 13041-149
2	CRHE-DPT0214-018.0-20130325		1446								NAL -150
3	CRHE-DPT0214-023.0-20130325		1449								NAL -151
4	CRHE-DPT0214-028.0-20130325		1459								NAL -152
5	CRHE-DPT0214-033.0-20130325		1509								NAL -153
6	CRHE-DPT0214-038.0-20130325		1520								NAL -154
7	CRHE-DPT0214-043.0-20130325		1532								NAL -155
8	CRHE-DPT0214-058.0-20130325		1546								NAL -156
9											NAL -
10											NAL -

CRH 3/25/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Crystal Towns/Geosyntec	CRH & WH	3/25/13	1648
2					
3					
4					

Remarks (for lab use only): Acceptable CRH 3/25/13

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR-1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B-COCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
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№ 5273

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0213-069.0-20130326	3/26/13	0751		X	2	N	Y	A		NAL 130411 57
2	CRHE-DPT0215-010.0-20130326		0855								NAL -158
3	CRHE-DPT0215-018.0-20130326		0915								NAL -159
4	CRHE-DPT0215-023.0-20130326		0929								NAL -160
5	CRHE-DPT0215-028.0-20130326		0937								NAL -161
6	CRHE-DPT0215-033.0-20130326		0949								NAL -162
7	CRHE-DPT0215-038.0-20130326		1003								NAL -163
8	CRHE-DPT0215-043.0-20130326		1016								NAL -164
9	CRHE-DPT0215-058.0-20130326		1033								NAL -165
10	CRHE-DPT0216-010.0-20130326		1117								NAL -166

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns / Geosyntec	Christine Nhan	3/26/13	1245
2					
3					
4					

Remarks (for lab use only): Acceptable COC 3/26/13

Sampler's Signature: Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

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Nº 5274

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0216-018.0-20130326 ~~13~~ CT	3/26/13	1128		X	2	N	Y	A		NAL 13041-167
2	CRHE-DPT0216-023.0-20130326	"	1138		"	"	"	"	"		NAL - 168
3	CRHE-DPT0216-028.0-20130326	"	1148		"	"	"	"	"		NAL - 169
4	CRHE-DPT0216-033.0-20130326	"	1200		"	"	"	"	"		NAL - 170
5	CRHE-DPT0216-038.0-20130326	"	1212		"	"	"	"	"		NAL - 171
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CEW 3/26/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-5	Crystal Towns Geosyntec	Celeste Weh	3/26/13	1215
2					
3					
4					

Remarks (for lab use only): Acceptable CEW 3/26/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B-VOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
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№ 5275

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0216-043.0-20130326	3/26/13	1258		X	2	N	Y	A		NAL 1304 - 172
2	CRHE-DPT0216-058.0-20130326		1315								NAL - 173
3	CRHE-DPT0217-010.0-20130326		1355								NAL - 174
4	CRHE-DPT0217-018.0-20130326		1404								NAL - 175
5	CRHE-DPT0217-023.0-20130326		1413								NAL - 176
6	CRHE-DPT0217-028.0-20130326		1423								NAL - 177
7	CRHE-DPT0217-033.0-20130326		1433								NAL - 178
8	CRHE-DPT0217-038.0-20130326		1446								NAL - 179
9	CRHE-DPT0217-043.0-20130326		1500								NAL - 180
10	CRHE-DPT0217-058.0-20130326	↓	1517		↓	↓	↓	↓	↓		NAL - 181

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns / Geosyntec	[illegible]	3/26/13	1600
2					
3					
4					

Remarks (for lab use only): Acceptable CEW 3/26/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

No 5276

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260B CVOC	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0214-068.0-20130326	3/26/13	1601		X	2	X	N	Y	A		NAL 1304 - 182
2												NAL -
3												NAL -
4												NAL -
5												NAL -
6												NAL -
7												NAL -
8												NAL -
9												NAL -
10												NAL -

CRW 3/26/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1	Crystal Towns / Geosyntec		3/26/13	1600
2					
3					
4					

Remarks (for lab use only)
Acceptable
Crystal Towns

Sampler's Signature
Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B, CrOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5277

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0218-010.0-20130327	3/27/13	0749		X	2	N	Y	A		NAL 13041 - 183
2	CRHE-DPT0218-18.0-20130327	"	0759		"	"	"	"	"		NAL - 184
3	CRHE-DPT0218-023.0-20130327	"	0810		"	"	"	"	"		NAL - 185
4	CRHE-DPT0218-028.0-20130327	"	0822		"	"	"	"	"		NAL - 186
5	CRHE-DPT0218-033.0-20130327	"	0837		"	"	"	"	"		NAL - 187
6	CRHE-DPT0218-038.0-20130327	"	0851		"	"	"	"	"		NAL - 188
7	CRHE-DPT0218-043.0-20130327	"	0907		"	"	"	"	"		NAL - 189
8	CRHE-DPT0218-058.0-20130327	"	0929		"	"	"	"	"		NAL - 190
9											NAL -
10											NAL -

CEW 3/27/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Crystal Towns/Geosyntec	Celeste Weaver	3/27/13	0947
2					
3					
4					

Remarks (for lab use only): Acceptable CEW 3/27/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec for HE

Project No.: FR 1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B-CVOCs

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
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No 5278

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0219-010.0-20130327	3/27/13	1006		X	2	N	Y	A		NAL 13041-191
2	CRHE-DPT0219-018.0-~~20130327~~ 20130327		1028								NAL -192
3	CRHE-DPT0219-023.0-20130327		1041								NAL -193
4	CRHE-DPT0219-028.0-20130327		1055								NAL -194
5	CRHE-DPT0219-033.0-20130327		1107								NAL -195
6	CRHE-DPT0219-038.0-20130327		1119								NAL -196
7	CRHE-DPT0219-043.0-20130327		1133								NAL -197
8	CRHE-DPT0219-058.0-20130327		1157								NAL -198
9	CRHE-DPT0220-010.0-20130327		1322								NAL -199
10	CRHE-DPT0220-018.0-20130327		1331								NAL -200

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Towns	[illegible]	3/28/13	1621
2					
3					
4					

Remarks (for lab use only): Delivered on ice

Sampler's Signature: Crystal Towns 3/27/13

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5279

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0220-023.0-20130327	3/27/13	1340		X	2	X	N	Y	A	NAL 1304-201
2	CRHE-DPT0220-028.0-20130327		1351								NAL -202
3	CRHE-DPT0220-033.0-20130327		1403								NAL -203
4	CRHE-DPT0220-038.0-20130327		1415								NAL -204
5	CRHE-DPT0220-043.0-20130327		1428								NAL -205
6	CRHE-IDW193861-20130327		1206								NAL 206
7	CRHE-DPT0220-058.0-20130327		1443								NAL -207
8	CRHE-DPT0220-068.0-20130327		1503								NAL -208
9	CRHE-DPT0216-068.0-20130327		1542								NAL -209
10	CRHE-DPT0217-068.0-20130327		1625								NAL -210

Transfer Number	Item Numbers	Transfers Relinquished By	@	Transfers Accepted By	Date	Time
1	1-10	[signature]	@	[signature]	3/27/13	1630
2						
3						
4						

Remarks (for lab use only): Acceptable 3/27/13

Sampler's Signature: Crystal Towns

Print Name: Crystal Towns

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B-CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5280

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0221-010.0-20130328	3/28/13	0750		X	2	N	Y	A		NAL 13241-211
2	CRHE-DPT0221-018.0-20130328		0802								NAL -212
3	CRHE-DPT0221-023.0-20130328		0812								NAL -213
4	CRHE-DPT0221-028.0-20130328		0830								NAL -214
5	CRHE-DPT0221-033.0-20130328 (DT)		0841								NAL -215
6	CRHE-DPT0221-038.0-20130328		0857								NAL -216
7	CRHE-DPT0221-043.0-20130328		0918								NAL -217
8	CRHE-DPT0221-058.0-20130328		0936								NAL -218
9	CRHE-DPT0222-010.0-20130328		1009								NAL -219
10	CRHE-DPT0222-018.0-20130328		1019								NAL -220

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Crystal Toms	[illegible]	3/28/13	1134
2					
3					
4					

Remarks (for lab use only)
Accepted AEW 3/28/13

Sampler's Signature: Crystal Toms

Print Name

COCs rev.5 Date: 2/27/08 Copyright © 2008 All Rights Reserved

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number:

Project Location: KSC

lpetty@geosyntec.com

Types of Analysis: 8260B VOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5281

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0222-023.0-20130328	3/28/13	1032		X	2	N	Y	A		NAL 1304-221
2	CRHE-DPT0222-028.0-20130328		1045								NAL -222
3	CRHE-DPT0222-033.0-20130328		1057								NAL -223
4	CRHE-DPT0222-038.0-20130328		1110								NAL -224
5	CRHE-DPT0222-043.0-20130328		1125								NAL -225
6	CRHE-DPT0222-058.0-20130328		1141								NAL -226
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CRW 3/28/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-6	Crystal Towns	CRW	3/28/13	1159
2					
3					
4					

Remarks (for lab use only): Acceptable -

Crystal Towns

Sampler's Signature

Crystal Towns

Print Name

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR 1681/25*2

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: RSC

Types of Analysis: 8260B cVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

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www.newagelandmark.com

№ 5282

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0223-010.0-20130328	3/28/13	1259		X	2	N	Y	A		NAL 1341 ~~1344~~ 127
2	CRHE-DPT0223-018.0-20130328		1309								NAL 128
3	CRHE-DPT0223-023.0-20130328		1320								NAL 229
4	CRHE-DPT0223-028.0-20130328		1330								NAL 230
5	CRHE-DPT0223-033.0-20130328		1340								NAL 231
6	CRHE-DPT0223-038.0-20130328		1350								NAL 232
7	CRHE-DPT0223-043.0-20130328		1418								NAL 233
8	CRHE-DPT0223-058.0-20130328		1428								NAL 234
9	CRHE-DPT0224-010.0-20130328		1504								NAL 235
10	CRHE-DPT0224-018.0-20130328		1512								NAL 236

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-10	Claire Osborn		3/28/13	1712
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Claire Osborn

Print Name: Claire Osborn

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White: New Age/Landmark, Inc. File Copy•Yellow: Laboratory Copy•Pink: Client Copy

Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681/25*2

Project Contact: Lauren Petty lpettye geosyntec.com

Phone Number:

Project Location: KSC

Types of Analysis: 8260B - Cl,V

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№ 5283

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	8260B - Cl,V	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0224-0230-20130328	3/28/13	1522		X	2	X	N	Y	A		NAL 304/237
2	CRHE-DPT0224-0260-20130328	3/28/13	1532		"	"	X	N	Y	A		NAL -238
3	~~CRHE-DPT0224-0330-20130328~~											NAL -
4	~~CRHE-DPT0224-0380-20130328~~ IDW193											NAL -
5	CRHE-~~DPT0224-0380~~-20130328	3/28/13	1710		X	2	X	N	Y	A		NAL -239
6												NAL -
7												NAL -
8												NAL -
9												NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1,2,5	Claire Osborn	[signature]	3/28/13	1712
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Claire Osborn

Print Name: Claire Osborn

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR1681/25*2

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: RSC

Types of Analysis: 8260B - CVOC

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
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№ 5284

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	8260B - CVOC	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0224-0330-20130329	3/29/13	820		X	2	X	N	Y	A		NAL 13241240
2	CRHE-DPT0224-0380-20130329		840									NAL 241
3	CRHE-DPT0224-0430-20130329		855									NAL 242
4	CRHE-DPT0224-0580-20130329		911									NAL 243
5												NAL -
6												NAL -
7												NAL -
8												NAL -
9												NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	4	Claire Osborn	Sebastian Wheeler	3/29/13	930
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Claire Osborn

Print Name: Claire Osborn

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Client Name & Project Name: Geosyntec / CRHE

Project No.:

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: RSC

Types of Analysis: 8260B-VOC

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Mobile Laboratory Services

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www.newagelandmark.com

№ 5285

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0225-010.0-20130329	3/29/13	950		X	2	X	N	Y	A		NAL 32011-244
2	CRHE-DPT0225-018.0-20130329		1000								NAL -245
3	CRHE-DPT0225-023.0-20130329		1020								NAL -246
4	CRHE-DPT0225-028.0-20130329		1030								NAL -247
5	CRHE-DPT0225-033.0-20130329		1040								NAL -248
6	CRHE-DPT0225-038.0-20130329		1050								NAL -249
7	CRHE-DPT0225-043.0-20130329 (EW)		1100								NAL -250
8	CRHE-DPT0225-~~048.0~~ 053.0-20130329		1110								NAL -251
9							CR	3/29/13			NAL -
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	8	Claire Osborn	Celeste Wh	3/29/13	1145
2					
3					
4					

Remarks (for lab use only)
* please analyze CRHE-DPT0225-010.0-20130329 next week as to stay in 125 samples/wk quota

Sampler's Signature: Claire Osborn

Print Name: Claire Osborn

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Client Name & Project Name: Geosyntec / CRHE

Project No.:

Project Contact: Lauren Petty lpetty@geosyntec.com

Phone Number:

Project Location: RSC

Types of Analysis: 8260B-OOC

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№ 5286

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0225-0680-20130329	3/29/13	1358		X	2	N	Y	A		NAL 13041-252
2											NAL -
3											NAL -
4											NAL -
5											NAL -
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

DLW 3/29/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1	Claire Osborn		3/29/13	1410
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Claire Osborn

Print Name: Claire Osborn

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850) 477-6547

Project Location: NASA - CRHE

Types of Analysis: 8260 (cvocs+1,4-D)

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Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5288

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0226-010.0-20130401	04/01/13	08:59		X	2	N	Y	A		NAL 13041-253
2	CRHE-DPT0226-018.0-20130401	04/01/13	09:12		X	2	N				NAL -254
3	CRHE-DPT0226-023.0-20130401	04/01/13	09:22		X	2	N				NAL -255
4	CRHE-DPT0226-028.0-20130401	04/01/13	09:38		X	2	N				NAL -256
5	CRHE-DPT0226-033.0-20130401	04/01/13	09:52		X	2	N				NAL -257
6	CRHE-DPT0226-038.0-20130401	04/01/13	10:09		X	2	N				NAL -258
7	CRHE-DPT0226-043.0-20130401	04/01/13	10:30		X	2	N				NAL -259
8	CRHE-DPT0226-058.0-20130401	04/01/13	10:49		X	2	N				NAL 260
9											NAL -
10											NAL -

CCV 4/1/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christel Schultz	Courtney Walker	4/1/13	1153
2					
3					
4					

Remarks (for lab use only): Acceptable CCV 4/1/13

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850) 477-6547

Project Location: NASA - CRHE

Types of Analysis: 8260 (expanded list)

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
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№ 5289

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0227-010.0-20130401	04/01/13	11:23		X	2	N	Y	A		NAL 1304 1-261
2	CRHE-DPT0227-018.0-20130401	04/01/13	11:33		X	2	N				NAL -262
3	CRHE-DPT0227-023.0-20130401	04/01/13	11:49		X	2	N				NAL -263
4	CRHE-DPT0227-028.0-20130401	04/01/13	12:07		X	2	N				NAL -264
5	CRHE-DPT0227-033.0-20130401	04/01/13	12:45		X	2	N				NAL -265
6	CRHE-DPT0227-038.0-20130401	04/01/13	13:02		X	2	N				NAL -266
7	CRHE-DPT0227-0430-20130401	04/01/13	13:21		X	2	N				NAL -267
8	CRHE-DPT0227-058.0-20130401	04/01/13	13:40		X	2	N				NAL -268
9											NAL -
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christel Schultz	Christel Schultz	4/1/13	1449
2					
3					
4					

Remarks (for lab use only): Acceptable CEW

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

Types of Analysis: 8260 (VOCs not-4 list)

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Mobile Laboratory Services

Tel. No.: 888-685-1628
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№ 5290

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0228-010.0-20130401	04/01/13	14:21		X	2	N	Y	A		NAL 13041-269
2	CRHE-DPT0228-018.0-20130401	04/01/13	14:34		X	2	N				NAL -270
3	CRHE-DPT0228-028.0-20130401	04/01/13	14:59		X	2	N				NAL -271
4	CRHE-DPT0228-030.0-20130401	04/01/13	15:12		X	2	N				NAL -272
5	CRHE-DPT0228-038.0-20130401	04/01/13	15:29		X	2	N				NAL -273
6	CRHE-DPT0228-043.0-20130401	04/01/13	15:47		X	2	N				NAL -274
7	CRHE-DPT0228-023.0-20130401	04/01/13	14:45		X	2	N				NAL -275
8	CRHE-DPT0228-058.0-20130401	04/01/13	16:06		X	2	N				NAL -276
9							N				NAL -
10											NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8			4/1/13	16:36
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature:

Print Name: Christel Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

Types of Analysis: 8260 (Once Point List)

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5291

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0229-010.0-20130401	4/1/13	10:51		X	2	N	Y	A		NAL 1304177
2											NAL -
3											NAL -
4											NAL -
5											NAL -
6											NAL -
7											NAL -
8											NAL -
9											NAL -
10											NAL -

CRW 4/1/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1	Christ Schultz	Christ W	4/1/13	1712
2					
3					
4					

Remarks (for lab use only): Acceptable CRW

Sampler's Signature: Christ Schultz

Print Name: Christel Schultz

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Client Name & Project Name: Geosyntec / CRHE

Project No.: FR16F1

Project Contact: Lauren Petty

Phone Number: (850) 477-6547

Project Location: NASA - CRHE

New Age/Landmark, Inc.
Mobile Laboratory Services

Tel. No.: 888-685-1628
www.newagelandmark.com

№ 5292

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260 (w/ acetone list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0229-018.0-20130402	04/02/13	07:39		X	2	X	N	Y	A		NAL 13041-278
2	CRHE-DPT0229-023.0-20130402	04/02/13	07:53		X	2	X	N				NAL -279
3	CRHE-DPT0229-028.0-20130402	04/02/13	08:25		X	2	X	N				NAL -280
4	CRHE-DPT0229-033.0-20130402	04/02/13	08:43		X	2	X	N				NAL -281
5	CRHE-DPT0229-038.0-20130402	04/02/13	09:05		X	2	X	N				NAL -282
6	CRHE-DPT0229-043.0-20130402	04/02/13	09:21		X	2	X	N				NAL -283
7	CRHE-DPT0229-058.0-20130402	04/02/13	09:45		X	2	X	N				NAL -284
8												NAL -
9												NAL -
10												NAL -

4/4/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-7	Christel Schultz	Celeste Wr	4/4/13	1020
2					
3					
4					

Remarks (for lab use only)
Acceptable

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

COCs rev.5 Date: 2/27/08 Copyright © 2008 All Rights Reserved

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850) 477-4547

Project Location: NASA - CRHE

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№ 5293

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260 (VOC short list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0230-010.0-20130402 (CS)	04/02/13	10:25		X	2	X	N	Y	A		NAL 13041285
2	CRHE-DPT0230-018.0-20130402	04/02/13	10:36		X	2	X	N				NAL -286
3	CRHE-DPT0230-023.0-20130402	04/02/13	10:50		X	2	X	N				NAL -287
4	CRHE-DPT0230-028.0-20130402	04/02/13	11:05		X	2	X	N				NAL -288
5	CRHE-DPT0230-033.0-20130402	04/02/13	11:19		X	2	X	N				NAL -289
6	CRHE-DPT0230-038.0-20130402	04/02/13	11:32		X	2	X	N				NAL -290
7	CRHE-DPT0230-043.0-20130402 (CS)	04/02/13 (CS)										NAL -
8												NAL -
9												NAL -
10												NAL -

CCW 4/2/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-6	Christel Schultz	Christie Wh	4/2/13	1229
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR16811

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

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Mobile Laboratory Services

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№ 5294

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260 (Civic Airport list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0230-043.0-20130402	04/02/13	13:28		X	2	X	N	Y	A		NAL 13041-291
2	CRHE-DPT0230-058.0-20130402	04/02/13	13:50		X	2	X	N	Y	A		NAL -292
3												NAL -
4												NAL -
5												NAL -
6												NAL -
7												NAL -
8												NAL -
9												NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-2	Christ Schultz	Celyste Wh	4/2/13	1530
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Christ Schultz

Print Name: Christ Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850) 477-6547

Project Location: NASA - CRHE

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№ 5295

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260 (Circle short list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0231-018.0-20130402	04/02/13	16:27		X	2	X	N	Y	A		NAL 13041293
2	CRHE-DPT0231-023.0-20130402	04/02/13	16:39		X	2	X	N				NAL -294
3	CRHE-DPT0231-028.0-20130402	04/02/13	16:51		X	2	X	N				NAL -295
4	CRHE-DPT0231-~~033.0~~ 023.0 -20130402	04/02/13	17:05		X	2	X	N				NAL -296
5	CRHE-DPT0231-038.0-20130402	04/02/13	17:19		X	2	X	N				NAL -297
6	CRHE-DPT0231-043.0-20130402	04/02/13	17:34		X	2	X	N				NAL -298
7	CRHE-DPT0231-010.0-20130402	04/02/13	16:07		X	2	X	N				NAL -299
8	CRHE-DPT0231-058.0-20130402	04/02/13	17:54		X	2	X	N		A		NAL -300
9												NAL -
10												NAL -

CRW 4/2/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christ Schultz	[illegible]	4/2/13	1522
2					
3					
4					

Remarks (for lab use only)
Accepted

Sampler's Signature: Christ Schultz

Print Name: Christ Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR16681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: ETES NASA - CRHE

Types of Analysis: PAH (CVOC short list)

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№ 5296

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: PAH (CVOC short list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0232-010.0-20130403	04/03/13	08:54		X	2	X	N	Y	A		NAL 13041-301
2	CRHE-DPT0232-018.0-20130403	04/03/13	09:09		X	2	X	N				NAL -302
3	CRHE-DPT0232-023.0-20130403	04/03/13	09:24		X	2	X	N				NAL -303
4	CRHE-DPT0232-028.0-20130403	04/03/13	09:36		X	2	X	N				NAL 304
5	CRHE-DPT0232-033.0-20130403	04/03/13	09:50		X	2	X	N				NAL 305
6	CRHE-DPT0232-038.0-20130403	04/03/13	10:07		X	2	X	N				NAL 306
7	CRHE-DPT0232-043.0-20130403	04/03/13	10:25		X	2	X	N				NAL -307
8	CRHE-DPT0232-058.0-20130403	04/03/13	10:44		X	2	X	N				NAL -308
9							CEW	4/3/13				NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christel Schultz	Celeste Ethridge	4/3/13	1115
2					
3					
4					

Remarks (for lab use only): Acceptable (CEW)

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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Client Name & Project Name: GeoSyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

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№ 5297

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260 (VOC Method)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0233-010.0-20130403	04/03/13	11:43		X	2	X	N	Y	A		NAL 13041-309
2	CRHE-DPT0233-018.0-20130403	04/03/13	11:55		X	2	X	N				NAL -310
3	CRHE-DPT0233-023.0-20130403	04/03/13	12:07		X	2	X	N				NAL -311
4	CRHE-DPT0233-028.0-20130403	04/03/13	12:49		X	2	X	N				NAL -312
5	CRHE-DPT0233-033.0-20130403	04/03/13	13:01		X	2	X	N				NAL -313
6	CRHE-DPT0233-038.0-20130403	04/03/13	13:9		X	2	X	N				NAL -314
7	CRHE-DPT0233-043.0-20130403	04/03/13	13:35		X	2	X	N				NAL -315
8	CRHE-DPT0233-058.0-20130403	04/03/13	13:53		X	2	X	N				NAL -316
9											4/4/13	NAL -
10												NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8			4/3/13	1443
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature

Print Name: Christel Schultz

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Client Name & Project Name: Beaufort EC - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

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№ 5298

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: Aqeo (cvoc short list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0234-010.0-20130403	04/03/13	14:35		X	2	X	N	Y	A		NAL 1304/-317
2	CRHE-DPT0234-018.0-20130403	04/03/13	14:47		X	2	X	N				NAL -318
3	CRHE-DPT0234-023.0-20130403	04/03/13	14:59		X	2	X	N				NAL -319
4	CRHE-DPT0234-028.0-20130403	04/03/13	15:11		X	2	X	N				NAL -320
5	CRHE-DPT0234-033.0-20130403	04/03/13	15:25		X	2	X	N				NAL -321
6	CRHE-DPT0234-038.0-20130403	04/03/13	15:43		X	2	X	N				NAL -322
7	CRHE-DPT0234-043.0-20130403	04/03/13	16:01		X	2	X	N				NAL -323
8	CRHE-DPT0234-058.0-20130403	04/03/13	16:23		X	2	X	N				NAL -324
9	CRHE-DPT0235-010.0-20130403	04/03/13	16:53		X	2	X	N				NAL -325
10	CRHE-IDW-193864-~~IDW-193864~~ CS 20130403	04/03/13	17:30		X	2	X	N				NAL -326

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-9	Christel Schutte	Celyste Wh	4/3/13	1734
2					
3					
4					

Remarks (for lab use only)

Acceptable OBW

Sampler's Signature: Christel Schutte

Print Name: Christel Schutte

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

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№ 5299

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: 8260 (CVOC+Naphthalene)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0235-018.0-20130404	04/04/13	09:03		X	2	X	N	Y	A		NAL 1304157327
2	CRHE-DPT0235-023.0-20130404	04/04/13	09:15		X	2	X	N				NAL 328
3	CRHE-DPT0235-028.0-20130404	04/04/13	09:31		X	2	X	N				NAL 329
4	CRHE-DPT0235-033.0-20130404	04/04/13	09:47		X	2	X	N				NAL 330
5	CRHE-DPT0235-038.0-20130404	04/04/13	10:03		X	2	X	N				NAL 331
6	CRHE-DPT0235-~~038.0~~ 043.0 -20130404	04/04/13	10:23		X	2	X	N				NAL 332
7	CRHE-DPT0235-058.0-20130404	04/04/13	10:40		X	2	X	N				NAL 333
8												NAL -
9												NAL -
10												NAL -

CEW 4/4/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-7	Christel Schultz	Edward E Wise	4/4/13	1125
2					
3					
4					

Remarks (for lab use only): Acceptable (CEW)

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)477-6547

Project Location: NASA - CRHE

Types of Analysis: 8260 (CVOC short list)

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№ 5300

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0236-010.0-20130404	04/04/13	13:05		X	2	N	Y	A		NAL 13041-334
2	CRHE-DPT0236-018.0-20130404	04/04/13	13:20		X	2	N				NAL -335
3	CRHE-DPT0236-023.0-20130404	04/04/13	13:37		X	2	N				NAL -336
4	CRHE-DPT0236-028.0-20130404	04/04/13	13:48		X	2	N				NAL -337
5	CRHE-DPT0236-033.0-20130404	04/04/13	14:04		X	2	N				NAL -338
6	CRHE-DPT0236-038.0-20130404	04/04/13	14:24		X	2	N				NAL -339
7	CRHE-DPT0236-043.0-20130404	04/04/13	14:41		X	2	N				NAL -340
8	CRHE-DPT0236-058-20130404	04/04/13	15:00		X	2	N				NAL -341
9											NAL -
10											NAL -

COC rev 4/4/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christ Schultz	Robert Whitt	4/4/13	1547
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Christ Schultz

Print Name: Christel Schultz

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Client Name & Project Name: Berryhill - CRHE

Project No.: CRHE01

Project Contact: Lauren Petty

Phone Number: (650) 477-6547

Project Location: NASA - CRHE

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№ 5203

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: PCBs (Aroclors short list)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0237-010.0-20130405	04/05/13	09:31		X	2	X	N	Y	A		NAL 1341342
2	CRHE-DPT0237-018.0-20130405	04/05/13	09:45		X	2	X	N				NAL -343
3	CRHE-DPT0237-028.0-20130405	04/05/13	09:56		X	2	X	N				NAL -344
4	CRHE-DPT0237-028.0-20130405	04/05/13	10:07		X	2	X	N				NAL -345
5	CRHE-DPT0237-033.0-20130405	04/05/13	10:20		X	2	X	N				NAL -346
6	CRHE-DPT0237-038.0-20130405	04/05/13	11:23		X	2	X	N				NAL -347
7	CRHE-DPT0237-043.0-20130405	04/05/13	11:37		X	2	X	N				NAL -348
8	CRHE-DPT0237-058.0-20130405	04/05/13	11:52		X	2	X	N				NAL -349
9												NAL -
10												NAL -

CEW 4/5/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christel Schultz	Alyssa White	4/5/13	1214
2					
3					
4					

Remarks (for lab use only): Acceptable CEW

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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Client Name & Project Name: GeoSynTec - CRHE

Project No.: FR1681

Project Contact: Lauren Petty

Phone Number: (850)471-6547

Project Location: NASA - CRHE

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№ 5204

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Types of Analysis: PAHs (Direct Input List)	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0238-~~010.0~~ 010.0 (CS) -20130405	04/05/13	12:23		X	2	X	N	Y	A		NAL 13041-350
2	CRHE-DPT0238-018.0-20130405	04/05/13	12:30		X	2	X	N				NAL -351
3	CRHE-DPT0238-028.0-20130405	04/05/13	12:48		X	2	X	N				NAL -352
4	CRHE-DPT0238-028.0-20130405	04/05/13	12:58		X	2	X	N				NAL 353
5	CRHE-DPT0238-033.0-20130405	04/05/13	13:11		X	2	X	N				NAL -354
6	CRHE-DPT0238-038.0-20130405	04/05/13	13:27		X	2	X	N				NAL -355
7	CRHE-DPT0238-043.0-20130405	04/05/13	13:42		X	2	X	N				NAL -356
8	CRHE-DPT0238-058.0-20130405	04/05/13	14:02		X	2	X	N				NAL -357
9												NAL -
10												NAL

CEW 4/5/13

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-8	Christel Schulte	Alyssa Smith	4/5/13	1722
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Christel Schulte

Print Name: Christel Schulte

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Client Name & Project Name: Geosyntec - CRHE

Project No.: FR1681

Project Contact: Christel Schultz

Phone Number: (850)477-6547

Project Location: NASA - CRHE

Types of Analysis: 8260 (cVOC short list)

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№ 5205

Chain-of Custody Record

Item No.	Sample ID	Date	Time	Sample Type: Comp	Sample Type: Grab	No. of Containers	Preserved (Y/N)	4°C (Y/N)	Condition (A or NA)	Comments/Remarks Sample Description	Lab ID
1	CRHE-DPT0239-010.0-20130405	04/05/13	14:30		X	2	N	Y	A		NAL 1304358
2	CRHE-DPT0239-018.0-20130405	04/05/13	14:40		X	2	N				NAL -359
3	CRHEDPT0239-023.0-20130405	04/05/13	14:50		X	2	N				NAL -360
4	CRHE-DPT0239-028.0-20130405	04/05/13	15:04		X	2	N				NAL -361
5	CRHE-DPT0239-033.0-20130405	04/05/13	15:17		X	2	N				NAL -362
6	CRHE-DPT0239-038.0-20130405	04/05/13	15:34		X	2	N				NAL -363
7	CRHE-DPT0239-043.0-20130405	04/05/13	15:50		X	2	N				NAL -364
8	CRHE-DPT0239-(05)48.0-20130405	04/05/13	16:08		X	2	N				NAL -365
9	CRHE-IDW 193865-20130405	04/05/13	17:40		X	2	N				NAL -366
10										COC 4/5/13	NAL -

Transfer Number	Item Numbers	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1	Christel Schultz	Celeste Wheeler	4/5/13	1818
2					
3					
4					

Remarks (for lab use only): Acceptable

Sampler's Signature: Christel Schultz

Print Name: Christel Schultz

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FINAL ANALYTICAL REPORT

Geosyntec Consultants
316 S Baylen Str., Suite 201
Pensacola, FL 32502
ATTN: Ms. Jill Johnson

Project #: **NAL13-041**
Project Site: NASA, Kennedy Space Center

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
V = Analyte was detected in both the sample and the associated method blank.
L = Off-scale high. Actual value is known to be greater than value given.
J = Estimated value; value not accurate. All results with a "J" qualifier require comment.
I = The reported value is between the laboratory MDL and the laboratory PQL
K = Off-scale low. Actual value is known to be less than the value given.
U = Compound was analyzed for but not detected.

Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-001	CRHE-DPT0196-010.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268				
NAL13041-001	CRHE-DPT0196-010.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268				
NAL13041-001	CRHE-DPT0196-010.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268				
NAL13041-001	CRHE-DPT0196-010.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268				
NAL13041-001	CRHE-DPT0196-010.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268				
NAL13041-001	CRHE-DPT0196-010.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268				
NAL13041-001	CRHE-DPT0196-010.0-20130318	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268	50	92		
NAL13041-001	CRHE-DPT0196-010.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268	50	84		
NAL13041-001	CRHE-DPT0196-010.0-20130318	SUR	2037-26-5	Toluene d8	47		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268	50	94		
NAL13041-001	CRHE-DPT0196-010.0-20130318	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7268	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-002	CRHE-DPT0196-018.0-20130318	TRG	75-01-4	Vinyl Chloride	290	L	ug/L	1.0	0.13	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269				
NAL13041-002	CRHE-DPT0196-018.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269				
NAL13041-002	CRHE-DPT0196-018.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene	77		ug/L	1.0	0.28	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269				
NAL13041-002	CRHE-DPT0196-018.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	1600	L	ug/L	1.0	0.20	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269				
NAL13041-002	CRHE-DPT0196-018.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269				
NAL13041-002	CRHE-DPT0196-018.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269				
NAL13041-002	CRHE-DPT0196-018.0-20130318	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269	50	92		
NAL13041-002	CRHE-DPT0196-018.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269	50	86		
NAL13041-002	CRHE-DPT0196-018.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269	50	96		
NAL13041-002	CRHE-DPT0196-018.0-20130318	SUR	460-00-4	Bromofluorobenzene	45		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7269	50	90		

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NAL13041-003	CRHE-DPT0196-023.0-20130318	TRG	75-01-4	Vinyl Chloride	1300	L	ug/L	2.0	0.26	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281				
NAL13041-003	CRHE-DPT0196-023.0-20130318	TRG	75-35-4	1,1-Dichloroethene	86		ug/L	2.0	0.36	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281				
NAL13041-003	CRHE-DPT0196-023.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene	2300	L	ug/L	2.0	0.56	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281				
NAL13041-003	CRHE-DPT0196-023.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	24000	L	ug/L	2.0	0.40	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281				
NAL13041-003	CRHE-DPT0196-023.0-20130318	TRG	79-01-6	Trichloroethene	7700	L	ug/L	2.0	0.44	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281				
NAL13041-003	CRHE-DPT0196-023.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281				
NAL13041-003	CRHE-DPT0196-023.0-20130318	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281	50	100		
NAL13041-003	CRHE-DPT0196-023.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281	50	100		
NAL13041-003	CRHE-DPT0196-023.0-20130318	SUR	2037-26-5	Toluene d8	52		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281	50	104		
NAL13041-003	CRHE-DPT0196-023.0-20130318	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7281	50	104		

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NAL13041-004	CRHE-DPT0196-028.0-20130318	TRG	75-01-4	Vinyl Chloride	8000	LJL	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282				
NAL13041-004	CRHE-DPT0196-028.0-20130318	TRG	75-35-4	1,1-Dichloroethene	51		ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282				
NAL13041-004	CRHE-DPT0196-028.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene	920	LJL	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282				
NAL13041-004	CRHE-DPT0196-028.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	15000	LJL	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282				
NAL13041-004	CRHE-DPT0196-028.0-20130318	TRG	79-01-6	Trichloroethene	140	JL	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282				
NAL13041-004	CRHE-DPT0196-028.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282				
NAL13041-004	CRHE-DPT0196-028.0-20130318	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282	50	102		
NAL13041-004	CRHE-DPT0196-028.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282	50	98		
NAL13041-004	CRHE-DPT0196-028.0-20130318	SUR	2037-26-5	Toluene d8	46		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282	50	92		
NAL13041-004	CRHE-DPT0196-028.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7282	50	96		

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NAL13041-006	CRHE-DPT0196-038.0-20130318	TRG	75-01-4	Vinyl Chloride	2600	LJL	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284				
NAL13041-006	CRHE-DPT0196-038.0-20130318	TRG	75-35-4	1,1-Dichloroethene	150		ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284				
NAL13041-006	CRHE-DPT0196-038.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene	260	JL	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284				
NAL13041-006	CRHE-DPT0196-038.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	14000	LJL	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284				
NAL13041-006	CRHE-DPT0196-038.0-20130318	TRG	79-01-6	Trichloroethene	15000	LJL	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284				
NAL13041-006	CRHE-DPT0196-038.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284				
NAL13041-006	CRHE-DPT0196-038.0-20130318	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284	50	98		
NAL13041-006	CRHE-DPT0196-038.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284	50	102		
NAL13041-006	CRHE-DPT0196-038.0-20130318	SUR	2037-26-5	Toluene d8	52		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284	50	104		
NAL13041-006	CRHE-DPT0196-038.0-20130318	SUR	460-00-4	Bromofluorobenzene	53		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7284	50	106		

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NAL13041-008	CRHE-DPT0196-058.0-20130318	TRG	75-01-4	Vinyl Chloride	12	JL	ug/L	2.0	0.26	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271				
NAL13041-008	CRHE-DPT0196-058.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271				
NAL13041-008	CRHE-DPT0196-058.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene	5.6		ug/L	2.0	0.56	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271				
NAL13041-008	CRHE-DPT0196-058.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	220		ug/L	2.0	0.40	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271				
NAL13041-008	CRHE-DPT0196-058.0-20130318	TRG	79-01-6	Trichloroethene	120		ug/L	2.0	0.44	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271				
NAL13041-008	CRHE-DPT0196-058.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271				
NAL13041-008	CRHE-DPT0196-058.0-20130318	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271	50	102		
NAL13041-008	CRHE-DPT0196-058.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271	50	92		
NAL13041-008	CRHE-DPT0196-058.0-20130318	SUR	2037-26-5	Toluene d8	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271	50	92		
NAL13041-008	CRHE-DPT0196-058.0-20130318	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7271	50	92		

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NAL13041-011	CRHE-DPT0197-023.0-20130318	TRG	75-01-4	Vinyl Chloride	54	JL	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288				
NAL13041-011	CRHE-DPT0197-023.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288				
NAL13041-011	CRHE-DPT0197-023.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288				
NAL13041-011	CRHE-DPT0197-023.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	430	LJL	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288				
NAL13041-011	CRHE-DPT0197-023.0-20130318	TRG	79-01-6	Trichloroethene	11	JL	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288				
NAL13041-011	CRHE-DPT0197-023.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288				
NAL13041-011	CRHE-DPT0197-023.0-20130318	SUR	1868-53-7	Dibromofluoromethane	36		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288	50	72		
NAL13041-011	CRHE-DPT0197-023.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288	50	104		
NAL13041-011	CRHE-DPT0197-023.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288	50	96		
NAL13041-011	CRHE-DPT0197-023.0-20130318	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7288	50	98		

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NAL13041-012	CRHE-DPT0197-028.0-20130318	TRG	75-01-4	Vinyl Chloride	10	JL	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289				
NAL13041-012	CRHE-DPT0197-028.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289				
NAL13041-012	CRHE-DPT0197-028.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289				
NAL13041-012	CRHE-DPT0197-028.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	26	JL	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289				
NAL13041-012	CRHE-DPT0197-028.0-20130318	TRG	79-01-6	Trichloroethene	8.6	JL	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289				
NAL13041-012	CRHE-DPT0197-028.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289				
NAL13041-012	CRHE-DPT0197-028.0-20130318	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289	50	108		
NAL13041-012	CRHE-DPT0197-028.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289	50	102		
NAL13041-012	CRHE-DPT0197-028.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289	50	96		
NAL13041-012	CRHE-DPT0197-028.0-20130318	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7289	50	100		

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NAL13041-013	CRHE-DPT0197-033.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290				
NAL13041-013	CRHE-DPT0197-033.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290				
NAL13041-013	CRHE-DPT0197-033.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290				
NAL13041-013	CRHE-DPT0197-033.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290				
NAL13041-013	CRHE-DPT0197-033.0-20130318	TRG	79-01-6	Trichloroethene	6.7	JL	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290				
NAL13041-013	CRHE-DPT0197-033.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290				
NAL13041-013	CRHE-DPT0197-033.0-20130318	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290	50	104		
NAL13041-013	CRHE-DPT0197-033.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290	50	106		
NAL13041-013	CRHE-DPT0197-033.0-20130318	SUR	2037-26-5	Toluene d8	47		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290	50	94		
NAL13041-013	CRHE-DPT0197-033.0-20130318	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7290	50	98		

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NAL13041-015	CRHE-DPT0197-043.0-20130318	TRG	75-01-4	Vinyl Chloride	65		ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292				
NAL13041-015	CRHE-DPT0197-043.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292				
NAL13041-015	CRHE-DPT0197-043.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene	8.3		ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292				
NAL13041-015	CRHE-DPT0197-043.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	1200	L	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292				
NAL13041-015	CRHE-DPT0197-043.0-20130318	TRG	79-01-6	Trichloroethene	390	JL	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292				
NAL13041-015	CRHE-DPT0197-043.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292				
NAL13041-015	CRHE-DPT0197-043.0-20130318	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292	50	104		
NAL13041-015	CRHE-DPT0197-043.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292	50	104		
NAL13041-015	CRHE-DPT0197-043.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292	50	96		
NAL13041-015	CRHE-DPT0197-043.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7292	50	96		

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NAL13041-016	CRHE-DPT0197-058.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272				
NAL13041-016	CRHE-DPT0197-058.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272				
NAL13041-016	CRHE-DPT0197-058.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272				
NAL13041-016	CRHE-DPT0197-058.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	4.6		ug/L	2.0	0.40	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272				
NAL13041-016	CRHE-DPT0197-058.0-20130318	TRG	79-01-6	Trichloroethene	3.5		ug/L	2.0	0.44	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272				
NAL13041-016	CRHE-DPT0197-058.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272				
NAL13041-016	CRHE-DPT0197-058.0-20130318	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272	50	98		
NAL13041-016	CRHE-DPT0197-058.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272	50	90		
NAL13041-016	CRHE-DPT0197-058.0-20130318	SUR	2037-26-5	Toluene d8	47		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272	50	94		
NAL13041-016	CRHE-DPT0197-058.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7272	50	96		

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NAL13041-017	CRHE-DPT0198-010.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293				
NAL13041-017	CRHE-DPT0198-010.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293				
NAL13041-017	CRHE-DPT0198-010.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293				
NAL13041-017	CRHE-DPT0198-010.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293				
NAL13041-017	CRHE-DPT0198-010.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293				
NAL13041-017	CRHE-DPT0198-010.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293				
NAL13041-017	CRHE-DPT0198-010.0-20130318	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293	50	106		
NAL13041-017	CRHE-DPT0198-010.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293	50	104		
NAL13041-017	CRHE-DPT0198-010.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293	50	96		
NAL13041-017	CRHE-DPT0198-010.0-20130318	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7293	50	98		

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NAL13041-018	CRHE-DPT0198-018.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294				
NAL13041-018	CRHE-DPT0198-018.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294				
NAL13041-018	CRHE-DPT0198-018.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294				
NAL13041-018	CRHE-DPT0198-018.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294				
NAL13041-018	CRHE-DPT0198-018.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294				
NAL13041-018	CRHE-DPT0198-018.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294				
NAL13041-018	CRHE-DPT0198-018.0-20130318	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294	50	108		
NAL13041-018	CRHE-DPT0198-018.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294	50	106		
NAL13041-018	CRHE-DPT0198-018.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294	50	96		
NAL13041-018	CRHE-DPT0198-018.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7294	50	96		

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NAL13041-019	CRHE-DPT0198-023.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295				
NAL13041-019	CRHE-DPT0198-023.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295				
NAL13041-019	CRHE-DPT0198-023.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295				
NAL13041-019	CRHE-DPT0198-023.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295				
NAL13041-019	CRHE-DPT0198-023.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295				
NAL13041-019	CRHE-DPT0198-023.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295				
NAL13041-019	CRHE-DPT0198-023.0-20130318	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295	50	110		
NAL13041-019	CRHE-DPT0198-023.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295	50	102		
NAL13041-019	CRHE-DPT0198-023.0-20130318	SUR	2037-26-5	Toluene d8	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295	50	98		
NAL13041-019	CRHE-DPT0198-023.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7295	50	96		

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NAL13041-020	CRHE-DPT0198-028.0-20130318	TRG	75-01-4	Vinyl Chloride	2.5		ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296				
NAL13041-020	CRHE-DPT0198-028.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296				
NAL13041-020	CRHE-DPT0198-028.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296				
NAL13041-020	CRHE-DPT0198-028.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	6.2		ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296				
NAL13041-020	CRHE-DPT0198-028.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296				
NAL13041-020	CRHE-DPT0198-028.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296				
NAL13041-020	CRHE-DPT0198-028.0-20130318	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296	50	106		
NAL13041-020	CRHE-DPT0198-028.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296	50	102		
NAL13041-020	CRHE-DPT0198-028.0-20130318	SUR	2037-26-5	Toluene d8	47		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296	50	94		
NAL13041-020	CRHE-DPT0198-028.0-20130318	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7296	50	98		

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NAL13041-021	CRHE-DPT0198-033.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297				
NAL13041-021	CRHE-DPT0198-033.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297				
NAL13041-021	CRHE-DPT0198-033.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297				
NAL13041-021	CRHE-DPT0198-033.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	5.2		ug/L	2.0	0.40	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297				
NAL13041-021	CRHE-DPT0198-033.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297				
NAL13041-021	CRHE-DPT0198-033.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297				
NAL13041-021	CRHE-DPT0198-033.0-20130318	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297	50	106		
NAL13041-021	CRHE-DPT0198-033.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297	50	102		
NAL13041-021	CRHE-DPT0198-033.0-20130318	SUR	2037-26-5	Toluene d8	48		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297	50	96		
NAL13041-021	CRHE-DPT0198-033.0-20130318	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/18/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7297	50	100		

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NAL13041-024	CRHE-DPT0198-058.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	2.0	0.26	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273				
NAL13041-024	CRHE-DPT0198-058.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273				
NAL13041-024	CRHE-DPT0198-058.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273				
NAL13041-024	CRHE-DPT0198-058.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	6.8		ug/L	2.0	0.40	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273				
NAL13041-024	CRHE-DPT0198-058.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273				
NAL13041-024	CRHE-DPT0198-058.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273				
NAL13041-024	CRHE-DPT0198-058.0-20130318	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273	50	100		
NAL13041-024	CRHE-DPT0198-058.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273	50	94		
NAL13041-024	CRHE-DPT0198-058.0-20130318	SUR	2037-26-5	Toluene d8	47		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273	50	94		
NAL13041-024	CRHE-DPT0198-058.0-20130318	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7273	50	92		

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P031813CCVA	P031813CCVA	TRG	75-01-4	Vinyl Chloride	67		ug/L	1.0	0.13	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	134		
P031813CCVA	P031813CCVA	TRG	75-35-4	1,1-Dichloroethene	45		ug/L	1.0	0.18	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	90		
P031813CCVA	P031813CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	60		ug/L	1.0	0.28	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	120		
P031813CCVA	P031813CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	106		
P031813CCVA	P031813CCVA	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	94		
P031813CCVA	P031813CCVA	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	104		
P031813CCVA	P031813CCVA	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	90		
P031813CCVA	P031813CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	86		
P031813CCVA	P031813CCVA	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	100		
P031813CCVA	P031813CCVA	SUR	460-00-4	Bromofluorobenzene	46		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7265	50	92		

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P031813MBKA	P031813MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267				
P031813MBKA	P031813MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267				
P031813MBKA	P031813MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267				
P031813MBKA	P031813MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267				
P031813MBKA	P031813MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267				
P031813MBKA	P031813MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267				
P031813MBKA	P031813MBKA	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267	50	92		
P031813MBKA	P031813MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267	50	84		
P031813MBKA	P031813MBKA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267	50	96		
P031813MBKA	P031813MBKA	SUR	460-00-4	Bromofluorobenzene	44		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7267	50	88		

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P031813CCVB	P031813CCVB	TRG	75-01-4	Vinyl Chloride	53		ug/L	1.0	0.13	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	106		
P031813CCVB	P031813CCVB	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	80		
P031813CCVB	P031813CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	108		
P031813CCVB	P031813CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	106		
P031813CCVB	P031813CCVB	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	96		
P031813CCVB	P031813CCVB	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	106		
P031813CCVB	P031813CCVB	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	90		
P031813CCVB	P031813CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	41		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	82		
P031813CCVB	P031813CCVB	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	102		
P031813CCVB	P031813CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/18/2013	3/18/2013	WQ	1	NA	NA	NA	SW8260B	NALP7276	50	98		

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P031813MBKB	P031813MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280				
P031813MBKB	P031813MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280				
P031813MBKB	P031813MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280				
P031813MBKB	P031813MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280				
P031813MBKB	P031813MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280				
P031813MBKB	P031813MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280				
P031813MBKB	P031813MBKB	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280	50	104		
P031813MBKB	P031813MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280	50	100		
P031813MBKB	P031813MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280	50	96		
P031813MBKB	P031813MBKB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7280	50	96		

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P031813ALCS	P031813ALCS	TRG	75-01-4	Vinyl Chloride	56		ug/L	1.0	0.13	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	112		
P031813ALCS	P031813ALCS	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	84		
P031813ALCS	P031813ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	60		ug/L	1.0	0.28	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	120		
P031813ALCS	P031813ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	58		ug/L	1.0	0.20	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	116		
P031813ALCS	P031813ALCS	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	98		
P031813ALCS	P031813ALCS	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	106		
P031813ALCS	P031813ALCS	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	94		
P031813ALCS	P031813ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	86		
P031813ALCS	P031813ALCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	102		
P031813ALCS	P031813ALCS	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7274	50	94		

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P031813ALCD	P031813ALCD	TRG	75-01-4	Vinyl Chloride	58		ug/L	1.0	0.13	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	116	4	
P031813ALCD	P031813ALCD	TRG	75-35-4	1,1-Dichloroethene	83		ug/L	1.0	0.18	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	166	66	
P031813ALCD	P031813ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	61		ug/L	1.0	0.28	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	122	2	
P031813ALCD	P031813ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	59		ug/L	1.0	0.20	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	118	2	
P031813ALCD	P031813ALCD	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	98	0	
P031813ALCD	P031813ALCD	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	108	2	
P031813ALCD	P031813ALCD	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	94	0	
P031813ALCD	P031813ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	88	2	
P031813ALCD	P031813ALCD	SUR	2037-26-5	Toluene d8	52		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	104	2	
P031813ALCD	P031813ALCD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/18/2013	3/18/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7275	50	96	2	

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NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	TRG	75-01-4	Vinyl Chloride	54		ug/L	1.0	0.13	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	108		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	86		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	112		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	110		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	TRG	79-01-6	Trichloroethene	55		ug/L	1.0	0.22	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	110		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	106		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	92		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	84		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	SUR	2037-26-5	Toluene d8	52		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	104		
NAL13041-001MS	CRHE-DPT0196-010.0-20130318MS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7277	50	100		

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NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	TRG	75-01-4	Vinyl Chloride	56		ug/L	1.0	0.13	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	112	4	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	TRG	75-35-4	1,1-Dichloroethene	44		ug/L	1.0	0.18	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	88	2	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	112	0	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	108	2	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	TRG	79-01-6	Trichloroethene	61		ug/L	1.0	0.22	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	122	10	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	108	2	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	SUR	1868-53-7	Dibromofluoromethane	44		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	88	4	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	86	2	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	SUR	2037-26-5	Toluene d8	52		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	104	0	
NAL13041-001MSD	CRHE-DPT0196-010.0-20130318MSD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/18/2013	3/18/2013	3/18/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7278	50	102	2	

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NAL13041-028	CRHE-DPT0199-028.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307				
NAL13041-028	CRHE-DPT0199-028.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307				
NAL13041-028	CRHE-DPT0199-028.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307				
NAL13041-028	CRHE-DPT0199-028.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307				
NAL13041-028	CRHE-DPT0199-028.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307				
NAL13041-028	CRHE-DPT0199-028.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307				
NAL13041-028	CRHE-DPT0199-028.0-20130319	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307	50	96		
NAL13041-028	CRHE-DPT0199-028.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307	50	86		
NAL13041-028	CRHE-DPT0199-028.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307	50	94		
NAL13041-028	CRHE-DPT0199-028.0-20130319	SUR	460-00-4	Bromofluorobenzene	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7307	50	88		

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NAL13041-029	CRHE-DPT0199-033.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306				
NAL13041-029	CRHE-DPT0199-033.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306				
NAL13041-029	CRHE-DPT0199-033.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306				
NAL13041-029	CRHE-DPT0199-033.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306				
NAL13041-029	CRHE-DPT0199-033.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306				
NAL13041-029	CRHE-DPT0199-033.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306				
NAL13041-029	CRHE-DPT0199-033.0-20130319	SUR	1868-53-7	Dibromofluoromethane	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306	50	88		
NAL13041-029	CRHE-DPT0199-033.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	37		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306	50	74		
NAL13041-029	CRHE-DPT0199-033.0-20130319	SUR	2037-26-5	Toluene d8	48		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306	50	96		
NAL13041-029	CRHE-DPT0199-033.0-20130319	SUR	460-00-4	Bromofluorobenzene	45		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7306	50	90		

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NAL13041-030	CRHE-DPT0199-038.0-20130319	TRG	75-01-4	Vinyl Chloride	450		ug/L	5.0	0.65	3/19/2013	3/19/2013	3/19/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7304				
NAL13041-030	CRHE-DPT0199-038.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302				
NAL13041-030	CRHE-DPT0199-038.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302				
NAL13041-030	CRHE-DPT0199-038.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	19		ug/L	2.0	1.00	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302				
NAL13041-030	CRHE-DPT0199-038.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	1.10	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302				
NAL13041-030	CRHE-DPT0199-038.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.80	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302				
NAL13041-030	CRHE-DPT0199-038.0-20130319	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302	50	98		
NAL13041-030	CRHE-DPT0199-038.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302	50	88		
NAL13041-030	CRHE-DPT0199-038.0-20130319	SUR	2037-26-5	Toluene d8	48		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302	50	96		
NAL13041-030	CRHE-DPT0199-038.0-20130319	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7302	50	92		

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NAL13041-031	CRHE-DPT0199-043.0-20130319	TRG	75-01-4	Vinyl Chloride	200		ug/L	2.0	0.26	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301				
NAL13041-031	CRHE-DPT0199-043.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301				
NAL13041-031	CRHE-DPT0199-043.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301				
NAL13041-031	CRHE-DPT0199-043.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	88		ug/L	2.0	0.40	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301				
NAL13041-031	CRHE-DPT0199-043.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301				
NAL13041-031	CRHE-DPT0199-043.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301				
NAL13041-031	CRHE-DPT0199-043.0-20130319	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301	50	102		
NAL13041-031	CRHE-DPT0199-043.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301	50	94		
NAL13041-031	CRHE-DPT0199-043.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301	50	94		
NAL13041-031	CRHE-DPT0199-043.0-20130319	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7301	50	92		

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NAL13041-032	CRHE-DPT0199-058.0-20130319	TRG	75-01-4	Vinyl Chloride	7.6		ug/L	2.0	0.26	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300				
NAL13041-032	CRHE-DPT0199-058.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300				
NAL13041-032	CRHE-DPT0199-058.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300				
NAL13041-032	CRHE-DPT0199-058.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	21		ug/L	2.0	0.40	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300				
NAL13041-032	CRHE-DPT0199-058.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300				
NAL13041-032	CRHE-DPT0199-058.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300				
NAL13041-032	CRHE-DPT0199-058.0-20130319	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300	50	96		
NAL13041-032	CRHE-DPT0199-058.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300	50	86		
NAL13041-032	CRHE-DPT0199-058.0-20130319	SUR	2037-26-5	Toluene d8	49		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300	50	98		
NAL13041-032	CRHE-DPT0199-058.0-20130319	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7300	50	92		

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NAL13041-035	CRHE-DPT0200-023.0-20130319	TRG	75-01-4	Vinyl Chloride	1300		ug/L	250.0	32.50	3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325				
NAL13041-035	CRHE-DPT0200-023.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250.0	45.00	3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325				
NAL13041-035	CRHE-DPT0200-023.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250.0	70.00	3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325				
NAL13041-035	CRHE-DPT0200-023.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	10000		ug/L	250.0	50.00	3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325				
NAL13041-035	CRHE-DPT0200-023.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	250.0	55.00	3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325				
NAL13041-035	CRHE-DPT0200-023.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	250.0	40.00	3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325				
NAL13041-035	CRHE-DPT0200-023.0-20130319	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325	50	100		
NAL13041-035	CRHE-DPT0200-023.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325	50	88		
NAL13041-035	CRHE-DPT0200-023.0-20130319	SUR	2037-26-5	Toluene d8	45		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325	50	90		
NAL13041-035	CRHE-DPT0200-023.0-20130319	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7325	50	84		

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NAL13041-036	CRHE-DPT0200-028.0-20130319	TRG	75-01-4	Vinyl Chloride	4900		ug/L	250.0	32.50	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326				
NAL13041-036	CRHE-DPT0200-028.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250.0	45.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326				
NAL13041-036	CRHE-DPT0200-028.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene	1300		ug/L	250.0	70.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326				
NAL13041-036	CRHE-DPT0200-028.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	110000	L	ug/L	250.0	50.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326				
NAL13041-036	CRHE-DPT0200-028.0-20130319	TRG	79-01-6	Trichloroethene	13000		ug/L	250.0	55.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326				
NAL13041-036	CRHE-DPT0200-028.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	250.0	40.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326				
NAL13041-036	CRHE-DPT0200-028.0-20130319	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326	50	98		
NAL13041-036	CRHE-DPT0200-028.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326	50	86		
NAL13041-036	CRHE-DPT0200-028.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326	50	92		
NAL13041-036	CRHE-DPT0200-028.0-20130319	SUR	460-00-4	Bromofluorobenzene	43		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7326	50	86		

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NAL13041-037	CRHE-DPT0200-033.0-20130319	TRG	75-01-4	Vinyl Chloride	19000		ug/L	250.0	32.50	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327				
NAL13041-037	CRHE-DPT0200-033.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250.0	45.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327				
NAL13041-037	CRHE-DPT0200-033.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene	650		ug/L	250.0	70.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327				
NAL13041-037	CRHE-DPT0200-033.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	58000	LJL	ug/L	250.0	50.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327				
NAL13041-037	CRHE-DPT0200-033.0-20130319	TRG	79-01-6	Trichloroethene	3300		ug/L	250.0	55.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327				
NAL13041-037	CRHE-DPT0200-033.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	250.0	40.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327				
NAL13041-037	CRHE-DPT0200-033.0-20130319	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327	50	104		
NAL13041-037	CRHE-DPT0200-033.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327	50	88		
NAL13041-037	CRHE-DPT0200-033.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327	50	92		
NAL13041-037	CRHE-DPT0200-033.0-20130319	SUR	460-00-4	Bromofluorobenzene	43		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7327	50	86		

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NAL13041-038	CRHE-DPT0200-038.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	250.0	32.50	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328				
NAL13041-038	CRHE-DPT0200-038.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250.0	45.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328				
NAL13041-038	CRHE-DPT0200-038.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250.0	70.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328				
NAL13041-038	CRHE-DPT0200-038.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	2700	JL	ug/L	250.0	50.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328				
NAL13041-038	CRHE-DPT0200-038.0-20130319	TRG	79-01-6	Trichloroethene	340		ug/L	250.0	55.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328				
NAL13041-038	CRHE-DPT0200-038.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	250.0	40.00	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328				
NAL13041-038	CRHE-DPT0200-038.0-20130319	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328	50	94		
NAL13041-038	CRHE-DPT0200-038.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	41		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328	50	82		
NAL13041-038	CRHE-DPT0200-038.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328	50	94		
NAL13041-038	CRHE-DPT0200-038.0-20130319	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7328	50	84		

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NAL13041-039	CRHE-DPT0200-043.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309				
NAL13041-039	CRHE-DPT0200-043.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309				
NAL13041-039	CRHE-DPT0200-043.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309				
NAL13041-039	CRHE-DPT0200-043.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	8.2		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309				
NAL13041-039	CRHE-DPT0200-043.0-20130319	TRG	79-01-6	Trichloroethene	2.5		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309				
NAL13041-039	CRHE-DPT0200-043.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309				
NAL13041-039	CRHE-DPT0200-043.0-20130319	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309	50	98		
NAL13041-039	CRHE-DPT0200-043.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309	50	88		
NAL13041-039	CRHE-DPT0200-043.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309	50	94		
NAL13041-039	CRHE-DPT0200-043.0-20130319	SUR	460-00-4	Bromofluorobenzene	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7309	50	88		

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NAL13041-040	CRHE-DPT0200-058.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308				
NAL13041-040	CRHE-DPT0200-058.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308				
NAL13041-040	CRHE-DPT0200-058.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308				
NAL13041-040	CRHE-DPT0200-058.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	28		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308				
NAL13041-040	CRHE-DPT0200-058.0-20130319	TRG	79-01-6	Trichloroethene	2.9		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308				
NAL13041-040	CRHE-DPT0200-058.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308				
NAL13041-040	CRHE-DPT0200-058.0-20130319	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308	50	100		
NAL13041-040	CRHE-DPT0200-058.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308	50	88		
NAL13041-040	CRHE-DPT0200-058.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308	50	94		
NAL13041-040	CRHE-DPT0200-058.0-20130319	SUR	460-00-4	Bromofluorobenzene	45		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7308	50	90		

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NAL13041-046	CRHE-DPT0201-038.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313				
NAL13041-046	CRHE-DPT0201-038.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313				
NAL13041-046	CRHE-DPT0201-038.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313				
NAL13041-046	CRHE-DPT0201-038.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	5.6		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313				
NAL13041-046	CRHE-DPT0201-038.0-20130319	TRG	79-01-6	Trichloroethene	15		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313				
NAL13041-046	CRHE-DPT0201-038.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313				
NAL13041-046	CRHE-DPT0201-038.0-20130319	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313	50	98		
NAL13041-046	CRHE-DPT0201-038.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313	50	90		
NAL13041-046	CRHE-DPT0201-038.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313	50	94		
NAL13041-046	CRHE-DPT0201-038.0-20130319	SUR	460-00-4	Bromofluorobenzene	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7313	50	88		

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NAL13041-047	CRHE-DPT0201-043.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312				
NAL13041-047	CRHE-DPT0201-043.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312				
NAL13041-047	CRHE-DPT0201-043.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312				
NAL13041-047	CRHE-DPT0201-043.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	1.8		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312				
NAL13041-047	CRHE-DPT0201-043.0-20130319	TRG	79-01-6	Trichloroethene	2.0		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312				
NAL13041-047	CRHE-DPT0201-043.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312				
NAL13041-047	CRHE-DPT0201-043.0-20130319	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312	50	98		
NAL13041-047	CRHE-DPT0201-043.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312	50	84		
NAL13041-047	CRHE-DPT0201-043.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312	50	94		
NAL13041-047	CRHE-DPT0201-043.0-20130319	SUR	460-00-4	Bromofluorobenzene	43		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7312	50	86		

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NAL13041-048	CRHE-DPT0201-058.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311				
NAL13041-048	CRHE-DPT0201-058.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311				
NAL13041-048	CRHE-DPT0201-058.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311				
NAL13041-048	CRHE-DPT0201-058.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	20		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311				
NAL13041-048	CRHE-DPT0201-058.0-20130319	TRG	79-01-6	Trichloroethene	2.2		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311				
NAL13041-048	CRHE-DPT0201-058.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311				
NAL13041-048	CRHE-DPT0201-058.0-20130319	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311	50	92		
NAL13041-048	CRHE-DPT0201-058.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311	50	78		
NAL13041-048	CRHE-DPT0201-058.0-20130319	SUR	2037-26-5	Toluene d8	48		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311	50	96		
NAL13041-048	CRHE-DPT0201-058.0-20130319	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7311	50	84		

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NAL13041-049	CRHE-DPT0196-068.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310				
NAL13041-049	CRHE-DPT0196-068.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310				
NAL13041-049	CRHE-DPT0196-068.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310				
NAL13041-049	CRHE-DPT0196-068.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	84		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310				
NAL13041-049	CRHE-DPT0196-068.0-20130319	TRG	79-01-6	Trichloroethene	33		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310				
NAL13041-049	CRHE-DPT0196-068.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310				
NAL13041-049	CRHE-DPT0196-068.0-20130319	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310	50	92		
NAL13041-049	CRHE-DPT0196-068.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	40		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310	50	80		
NAL13041-049	CRHE-DPT0196-068.0-20130319	SUR	2037-26-5	Toluene d8	47		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310	50	94		
NAL13041-049	CRHE-DPT0196-068.0-20130319	SUR	460-00-4	Bromofluorobenzene	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7310	50	88		

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P031913CCVA	P031913CCVA	TRG	75-01-4	Vinyl Chloride	55		ug/L	1.0	0.13	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	110		
P031913CCVA	P031913CCVA	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	84		
P031913CCVA	P031913CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	1.0	0.28	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	110		
P031913CCVA	P031913CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	110		
P031913CCVA	P031913CCVA	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	102		
P031913CCVA	P031913CCVA	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	108		
P031913CCVA	P031913CCVA	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	92		
P031913CCVA	P031913CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	84		
P031913CCVA	P031913CCVA	SUR	2037-26-5	Toluene d8	52		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	104		
P031913CCVA	P031913CCVA	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7298	50	104		

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P031913MBKA	P031913MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299				
P031913MBKA	P031913MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299				
P031913MBKA	P031913MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299				
P031913MBKA	P031913MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299				
P031913MBKA	P031913MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299				
P031913MBKA	P031913MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299				
P031913MBKA	P031913MBKA	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299	50	98		
P031913MBKA	P031913MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299	50	92		
P031913MBKA	P031913MBKA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299	50	96		
P031913MBKA	P031913MBKA	SUR	460-00-4	Bromofluorobenzene	45		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7299	50	90		

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P031913CCVB	P031913CCVB	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	102		
P031913CCVB	P031913CCVB	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	82		
P031913CCVB	P031913CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	112		
P031913CCVB	P031913CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	110		
P031913CCVB	P031913CCVB	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	100		
P031913CCVB	P031913CCVB	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	106		
P031913CCVB	P031913CCVB	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	90		
P031913CCVB	P031913CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	78		
P031913CCVB	P031913CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	98		
P031913CCVB	P031913CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	98		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P031913ALCS	P031913ALCS	TRG	75-01-4	Vinyl Chloride	58		ug/L	1.0	0.13	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	116		
P031913ALCS	P031913ALCS	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	82		
P031913ALCS	P031913ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	57		ug/L	1.0	0.28	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	114		
P031913ALCS	P031913ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	112		
P031913ALCS	P031913ALCS	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	100		
P031913ALCS	P031913ALCS	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	108		
P031913ALCS	P031913ALCS	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	90		
P031913ALCS	P031913ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	78		
P031913ALCS	P031913ALCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	102		
P031913ALCS	P031913ALCS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7314	50	100		

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P031913ALCD	P031913ALCD	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	96	19	
P031913ALCD	P031913ALCD	TRG	75-35-4	1,1-Dichloroethene	38		ug/L	1.0	0.18	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	76	8	
P031913ALCD	P031913ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	108	5	
P031913ALCD	P031913ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	110	2	
P031913ALCD	P031913ALCD	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	100	0	
P031913ALCD	P031913ALCD	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	104	4	
P031913ALCD	P031913ALCD	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	90	0	
P031913ALCD	P031913ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	78	0	
P031913ALCD	P031913ALCD	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	98	4	
P031913ALCD	P031913ALCD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/19/2013	3/19/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7318	50	102	2	

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NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	104		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	80		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	110		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	99		5.6
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	68		15
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	106		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	SUR	1868-53-7	Dibromofluoromethane	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	88		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	SUR	17060-07-0	1,2-Dichloroethane d4	40		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	80		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	102		
NAL13041-046MS	CRHE-DPT0201-038.0-20130319MS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7315	50	100		

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NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	104	0	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	TRG	75-35-4	1,1-Dichloroethene	39		ug/L	1.0	0.18	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	78	3	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	112	2	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	97	2	5.6
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	68	0	15
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	106	0	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	SUR	1868-53-7	Dibromofluoromethane	44		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	88	0	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	SUR	17060-07-0	1,2-Dichloroethane d4	40		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	80	0	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	SUR	2037-26-5	Toluene d8	51		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	102	0	
NAL13041-046MSD	CRHE-DPT0201-038.0-20130319MSD	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/19/2013	3/19/2013	3/19/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7316	50	100	0	

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NAL13041-007	CRHE-DPT0196-043.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	500	65	3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335				
NAL13041-007	CRHE-DPT0196-043.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	500	90	3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335				
NAL13041-007	CRHE-DPT0196-043.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	500	140	3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335				
NAL13041-007	CRHE-DPT0196-043.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	15000		ug/L	500	100	3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335				
NAL13041-007	CRHE-DPT0196-043.0-20130318	TRG	79-01-6	Trichloroethene	14000		ug/L	500	110	3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335				
NAL13041-007	CRHE-DPT0196-043.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	500	80	3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335				
NAL13041-007	CRHE-DPT0196-043.0-20130318	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335	50	102		
NAL13041-007	CRHE-DPT0196-043.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335	50	86		
NAL13041-007	CRHE-DPT0196-043.0-20130318	SUR	2037-26-5	Toluene d8	46		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335	50	92		
NAL13041-007	CRHE-DPT0196-043.0-20130318	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7335	50	84		

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NAL13041-022	CRHE-DPT0198-038.0-20130318	TRG	75-01-4	Vinyl Chloride	4300		ug/L	250	33	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339				
NAL13041-022	CRHE-DPT0198-038.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339				
NAL13041-022	CRHE-DPT0198-038.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339				
NAL13041-022	CRHE-DPT0198-038.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	7300		ug/L	250	50	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339				
NAL13041-022	CRHE-DPT0198-038.0-20130318	TRG	79-01-6	Trichloroethene	120	I	ug/L	250	55	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339				
NAL13041-022	CRHE-DPT0198-038.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339				
NAL13041-022	CRHE-DPT0198-038.0-20130318	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339	50	94		
NAL13041-022	CRHE-DPT0198-038.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	41		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339	50	82		
NAL13041-022	CRHE-DPT0198-038.0-20130318	SUR	2037-26-5	Toluene d8	45		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339	50	90		
NAL13041-022	CRHE-DPT0198-038.0-20130318	SUR	460-00-4	Bromofluorobenzene	41		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7339	50	82		

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NAL13041-023	CRHE-DPT0198-043.0-20130318	TRG	75-01-4	Vinyl Chloride	160	I	ug/L	250	33	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340				
NAL13041-023	CRHE-DPT0198-043.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340				
NAL13041-023	CRHE-DPT0198-043.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340				
NAL13041-023	CRHE-DPT0198-043.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	250	50	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340				
NAL13041-023	CRHE-DPT0198-043.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340				
NAL13041-023	CRHE-DPT0198-043.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340				
NAL13041-023	CRHE-DPT0198-043.0-20130318	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340	50	104		
NAL13041-023	CRHE-DPT0198-043.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340	50	86		
NAL13041-023	CRHE-DPT0198-043.0-20130318	SUR	2037-26-5	Toluene d8	45		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340	50	90		
NAL13041-023	CRHE-DPT0198-043.0-20130318	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/18/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7340	50	84		

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NAL13041-042	CRHE-DPT0201-018.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330				
NAL13041-042	CRHE-DPT0201-018.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330				
NAL13041-042	CRHE-DPT0201-018.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330				
NAL13041-042	CRHE-DPT0201-018.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	1900		ug/L	250	50	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330				
NAL13041-042	CRHE-DPT0201-018.0-20130319	TRG	79-01-6	Trichloroethene	9400		ug/L	250	55	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330				
NAL13041-042	CRHE-DPT0201-018.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330				
NAL13041-042	CRHE-DPT0201-018.0-20130319	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330	50	96		
NAL13041-042	CRHE-DPT0201-018.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330	50	84		
NAL13041-042	CRHE-DPT0201-018.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330	50	92		
NAL13041-042	CRHE-DPT0201-018.0-20130319	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7330	50	84		

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NAL13041-043	CRHE-DPT0201-023.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331				
NAL13041-043	CRHE-DPT0201-023.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331				
NAL13041-043	CRHE-DPT0201-023.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331				
NAL13041-043	CRHE-DPT0201-023.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	1300		ug/L	250	50	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331				
NAL13041-043	CRHE-DPT0201-023.0-20130319	TRG	79-01-6	Trichloroethene	1700		ug/L	250	55	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331				
NAL13041-043	CRHE-DPT0201-023.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331				
NAL13041-043	CRHE-DPT0201-023.0-20130319	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331	50	102		
NAL13041-043	CRHE-DPT0201-023.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331	50	88		
NAL13041-043	CRHE-DPT0201-023.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331	50	92		
NAL13041-043	CRHE-DPT0201-023.0-20130319	SUR	460-00-4	Bromofluorobenzene	42		ug/L			3/19/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7331	50	84		

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NAL13041-052	CRHE-DPT0202-023.0-20130320	TRG	75-01-4	Vinyl Chloride	1900		ug/L	250	33	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347				
NAL13041-052	CRHE-DPT0202-023.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347				
NAL13041-052	CRHE-DPT0202-023.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene	1100		ug/L	250	70	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347				
NAL13041-052	CRHE-DPT0202-023.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	42000		ug/L	250	50	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347				
NAL13041-052	CRHE-DPT0202-023.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347				
NAL13041-052	CRHE-DPT0202-023.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347				
NAL13041-052	CRHE-DPT0202-023.0-20130320	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347	50	108		
NAL13041-052	CRHE-DPT0202-023.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347	50	104		
NAL13041-052	CRHE-DPT0202-023.0-20130320	SUR	2037-26-5	Toluene d8	47		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347	50	94		
NAL13041-052	CRHE-DPT0202-023.0-20130320	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7347	50	94		

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NAL13041-055	CRHE-DPT0202-038.0-20130320	TRG	75-01-4	Vinyl Chloride	1500		ug/L	250	33	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350				
NAL13041-055	CRHE-DPT0202-038.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350				
NAL13041-055	CRHE-DPT0202-038.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene	500		ug/L	250	70	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350				
NAL13041-055	CRHE-DPT0202-038.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	23000	JL	ug/L	250	50	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350				
NAL13041-055	CRHE-DPT0202-038.0-20130320	TRG	79-01-6	Trichloroethene	22000		ug/L	250	55	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350				
NAL13041-055	CRHE-DPT0202-038.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350				
NAL13041-055	CRHE-DPT0202-038.0-20130320	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350	50	106		
NAL13041-055	CRHE-DPT0202-038.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350	50	102		
NAL13041-055	CRHE-DPT0202-038.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350	50	92		
NAL13041-055	CRHE-DPT0202-038.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7350	50	96		

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NAL13041-056	CRHE-DPT0202-043.0-20130320	TRG	75-01-4	Vinyl Chloride	270		ug/L	250	33	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351				
NAL13041-056	CRHE-DPT0202-043.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351				
NAL13041-056	CRHE-DPT0202-043.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351				
NAL13041-056	CRHE-DPT0202-043.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	4700	JL	ug/L	250	50	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351				
NAL13041-056	CRHE-DPT0202-043.0-20130320	TRG	79-01-6	Trichloroethene	450		ug/L	250	55	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351				
NAL13041-056	CRHE-DPT0202-043.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351				
NAL13041-056	CRHE-DPT0202-043.0-20130320	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351	50	108		
NAL13041-056	CRHE-DPT0202-043.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351	50	104		
NAL13041-056	CRHE-DPT0202-043.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351	50	92		
NAL13041-056	CRHE-DPT0202-043.0-20130320	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7351	50	94		

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Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P031913CCVB	P031913CCVB	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	102		
P031913CCVB	P031913CCVB	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	82		
P031913CCVB	P031913CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	112		
P031913CCVB	P031913CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	110		
P031913CCVB	P031913CCVB	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	100		
P031913CCVB	P031913CCVB	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	106		
P031913CCVB	P031913CCVB	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	90		
P031913CCVB	P031913CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	78		
P031913CCVB	P031913CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	98		
P031913CCVB	P031913CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/19/2013	3/19/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7317	50	98		

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P032013ICV	P032013ICV	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	92		
P032013ICV	P032013ICV	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	94		
P032013ICV	P032013ICV	TRG	156-60-5	Trans-1,2-Dichloroethene	49		ug/L	1.0	0.28	NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	98		
P032013ICV	P032013ICV	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	102		
P032013ICV	P032013ICV	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	102		
P032013ICV	P032013ICV	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	108		
P032013ICV	P032013ICV	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	92		
P032013ICV	P032013ICV	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	84		
P032013ICV	P032013ICV	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	96		
P032013ICV	P032013ICV	SUR	460-00-4	Bromofluorobenzene	53		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7343	50	106		

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P032013MBKA	P032013MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	104		
P032013MBKA	P032013MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	102		
P032013MBKA	P032013MBKA	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	92		
P032013MBKA	P032013MBKA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	94		

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P032013ALCS	P032013ALCS	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	104		
P032013ALCS	P032013ALCS	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	92		
P032013ALCS	P032013ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	108		
P032013ALCS	P032013ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	110		
P032013ALCS	P032013ALCS	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	108		
P032013ALCS	P032013ALCS	TRG	127-18-4	Tetrachloroethene	55		ug/L	1.0	0.16	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	110		
P032013ALCS	P032013ALCS	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	92		
P032013ALCS	P032013ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	86		
P032013ALCS	P032013ALCS	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	96		
P032013ALCS	P032013ALCS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7359	50	102		

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P032013ALCD	P032013ALCD	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	104	0	
P032013ALCD	P032013ALCD	TRG	75-35-4	1,1-Dichloroethene	55		ug/L	1.0	0.18	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	110	18	
P032013ALCD	P032013ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	58		ug/L	1.0	0.28	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	116	7	
P032013ALCD	P032013ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	57		ug/L	1.0	0.20	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	114	4	
P032013ALCD	P032013ALCD	TRG	79-01-6	Trichloroethene	58		ug/L	1.0	0.22	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	116	7	
P032013ALCD	P032013ALCD	TRG	127-18-4	Tetrachloroethene	58		ug/L	1.0	0.16	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	116	5	
P032013ALCD	P032013ALCD	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	98	6	
P032013ALCD	P032013ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	92	7	
P032013ALCD	P032013ALCD	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	98	2	
P032013ALCD	P032013ALCD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7360	50	102	0	

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NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	98		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	100		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	104		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	104		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	TRG	79-01-6	Trichloroethene	55		ug/L	1.0	0.22	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	110		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	104		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	98		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	92		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	SUR	2037-26-5	Toluene d8	49		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	98		
NAL13041-057MS	CRHE-DPT0202-058.0-20130320MS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7361	50	102		

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NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	102	4	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	TRG	75-35-4	1,1-Dichloroethene	58		ug/L	1.0	0.18	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	116	15	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	58		ug/L	1.0	0.28	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	116	11	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	58		ug/L	1.0	0.20	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	116	11	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	TRG	79-01-6	Trichloroethene	59		ug/L	1.0	0.22	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	118	7	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	TRG	127-18-4	Tetrachloroethene	56		ug/L	1.0	0.16	3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	112	7	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	100	2	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	96	4	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	SUR	2037-26-5	Toluene d8	48		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	96	2	
NAL13041-057MSD	CRHE-DPT0202-058.0-20130320MSD	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7362	50	104	2	

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NAL13041-061	CRHE-DPT0203-028.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357				
NAL13041-061	CRHE-DPT0203-028.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357				
NAL13041-061	CRHE-DPT0203-028.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357				
NAL13041-061	CRHE-DPT0203-028.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	490		ug/L	250	50	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357				
NAL13041-061	CRHE-DPT0203-028.0-20130320	TRG	79-01-6	Trichloroethene	130	I	ug/L	250	55	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357				
NAL13041-061	CRHE-DPT0203-028.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357				
NAL13041-061	CRHE-DPT0203-028.0-20130320	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357	50	108		
NAL13041-061	CRHE-DPT0203-028.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357	50	102		
NAL13041-061	CRHE-DPT0203-028.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357	50	92		
NAL13041-061	CRHE-DPT0203-028.0-20130320	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/20/2013	3/20/2013	3/20/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7357	50	92		

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NAL13041-063	CRHE-DPT0203-038.0-20130320	TRG	75-01-4	Vinyl Chloride	5800		ug/L	250	33	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379				
NAL13041-063	CRHE-DPT0203-038.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379				
NAL13041-063	CRHE-DPT0203-038.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene	230	I	ug/L	250	70	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379				
NAL13041-063	CRHE-DPT0203-038.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	18000		ug/L	250	50	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379				
NAL13041-063	CRHE-DPT0203-038.0-20130320	TRG	79-01-6	Trichloroethene	4000		ug/L	250	55	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379				
NAL13041-063	CRHE-DPT0203-038.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379				
NAL13041-063	CRHE-DPT0203-038.0-20130320	SUR	1868-53-7	Dibromofluoromethane	37		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379	50	74		
NAL13041-063	CRHE-DPT0203-038.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379	50	110		
NAL13041-063	CRHE-DPT0203-038.0-20130320	SUR	2037-26-5	Toluene d8	47		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379	50	94		
NAL13041-063	CRHE-DPT0203-038.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7379	50	96		

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NAL13041-064	CRHE-DPT0203-043.0-20130320	TRG	75-01-4	Vinyl Chloride	1900		ug/L	250	33	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380				
NAL13041-064	CRHE-DPT0203-043.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380				
NAL13041-064	CRHE-DPT0203-043.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380				
NAL13041-064	CRHE-DPT0203-043.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	12000		ug/L	250	50	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380				
NAL13041-064	CRHE-DPT0203-043.0-20130320	TRG	79-01-6	Trichloroethene	2400		ug/L	250	55	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380				
NAL13041-064	CRHE-DPT0203-043.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380				
NAL13041-064	CRHE-DPT0203-043.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380	50	110		
NAL13041-064	CRHE-DPT0203-043.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380	50	112		
NAL13041-064	CRHE-DPT0203-043.0-20130320	SUR	2037-26-5	Toluene d8	47		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380	50	94		
NAL13041-064	CRHE-DPT0203-043.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7380	50	96		

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NAL13041-066	CRHE-DPT0204-010.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387				
NAL13041-066	CRHE-DPT0204-010.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387				
NAL13041-066	CRHE-DPT0204-010.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387				
NAL13041-066	CRHE-DPT0204-010.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	250	50	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387				
NAL13041-066	CRHE-DPT0204-010.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387				
NAL13041-066	CRHE-DPT0204-010.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387				
NAL13041-066	CRHE-DPT0204-010.0-20130320	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387	50	102		
NAL13041-066	CRHE-DPT0204-010.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387	50	102		
NAL13041-066	CRHE-DPT0204-010.0-20130320	SUR	2037-26-5	Toluene d8	47		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387	50	94		
NAL13041-066	CRHE-DPT0204-010.0-20130320	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7387	50	94		

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NAL13041-067	CRHE-DPT0204-018.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383				
NAL13041-067	CRHE-DPT0204-018.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383				
NAL13041-067	CRHE-DPT0204-018.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383				
NAL13041-067	CRHE-DPT0204-018.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	250	50	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383				
NAL13041-067	CRHE-DPT0204-018.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383				
NAL13041-067	CRHE-DPT0204-018.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383				
NAL13041-067	CRHE-DPT0204-018.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383	50	110		
NAL13041-067	CRHE-DPT0204-018.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383	50	114		
NAL13041-067	CRHE-DPT0204-018.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383	50	92		
NAL13041-067	CRHE-DPT0204-018.0-20130320	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7383	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-068	CRHE-DPT0204-023.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384				
NAL13041-068	CRHE-DPT0204-023.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384				
NAL13041-068	CRHE-DPT0204-023.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384				
NAL13041-068	CRHE-DPT0204-023.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	250	50	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384				
NAL13041-068	CRHE-DPT0204-023.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384				
NAL13041-068	CRHE-DPT0204-023.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384				
NAL13041-068	CRHE-DPT0204-023.0-20130320	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384	50	108		
NAL13041-068	CRHE-DPT0204-023.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384	50	110		
NAL13041-068	CRHE-DPT0204-023.0-20130320	SUR	2037-26-5	Toluene d8	47		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384	50	94		
NAL13041-068	CRHE-DPT0204-023.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7384	50	96		

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NAL13041-069	CRHE-DPT0204-028.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	250	33	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385				
NAL13041-069	CRHE-DPT0204-028.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385				
NAL13041-069	CRHE-DPT0204-028.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385				
NAL13041-069	CRHE-DPT0204-028.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	250	50	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385				
NAL13041-069	CRHE-DPT0204-028.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385				
NAL13041-069	CRHE-DPT0204-028.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385				
NAL13041-069	CRHE-DPT0204-028.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385	50	110		
NAL13041-069	CRHE-DPT0204-028.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385	50	108		
NAL13041-069	CRHE-DPT0204-028.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385	50	92		
NAL13041-069	CRHE-DPT0204-028.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/21/2013	3/21/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7385	50	96		

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NAL13041-070	CRHE-DPT0204-033.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388				
NAL13041-070	CRHE-DPT0204-033.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388				
NAL13041-070	CRHE-DPT0204-033.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388				
NAL13041-070	CRHE-DPT0204-033.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388				
NAL13041-070	CRHE-DPT0204-033.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388				
NAL13041-070	CRHE-DPT0204-033.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388				
NAL13041-070	CRHE-DPT0204-033.0-20130321	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388	50	100		
NAL13041-070	CRHE-DPT0204-033.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388	50	92		
NAL13041-070	CRHE-DPT0204-033.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388	50	94		
NAL13041-070	CRHE-DPT0204-033.0-20130321	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7388	50	100		

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NAL13041-071	CRHE-DPT0204-038.0-20130321	TRG	75-01-4	Vinyl Chloride	1.8		ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389				
NAL13041-071	CRHE-DPT0204-038.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389				
NAL13041-071	CRHE-DPT0204-038.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389				
NAL13041-071	CRHE-DPT0204-038.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	2.3		ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389				
NAL13041-071	CRHE-DPT0204-038.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389				
NAL13041-071	CRHE-DPT0204-038.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389				
NAL13041-071	CRHE-DPT0204-038.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389	50	108		
NAL13041-071	CRHE-DPT0204-038.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389	50	104		
NAL13041-071	CRHE-DPT0204-038.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389	50	94		
NAL13041-071	CRHE-DPT0204-038.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7389	50	94		

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NAL13041-072	CRHE-DPT0204-043.0-20130321	TRG	75-01-4	Vinyl Chloride	1.0		ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390				
NAL13041-072	CRHE-DPT0204-043.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390				
NAL13041-072	CRHE-DPT0204-043.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390				
NAL13041-072	CRHE-DPT0204-043.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	0.66	I	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390				
NAL13041-072	CRHE-DPT0204-043.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390				
NAL13041-072	CRHE-DPT0204-043.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390				
NAL13041-072	CRHE-DPT0204-043.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390	50	108		
NAL13041-072	CRHE-DPT0204-043.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390	50	104		
NAL13041-072	CRHE-DPT0204-043.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390	50	92		
NAL13041-072	CRHE-DPT0204-043.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7390	50	96		

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NAL13041-073	CRHE-DPT0204-058.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391				
NAL13041-073	CRHE-DPT0204-058.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391				
NAL13041-073	CRHE-DPT0204-058.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391				
NAL13041-073	CRHE-DPT0204-058.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391				
NAL13041-073	CRHE-DPT0204-058.0-20130321	TRG	79-01-6	Trichloroethene	0.52	I	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391				
NAL13041-073	CRHE-DPT0204-058.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391				
NAL13041-073	CRHE-DPT0204-058.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391	50	106		
NAL13041-073	CRHE-DPT0204-058.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391	50	104		
NAL13041-073	CRHE-DPT0204-058.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391	50	92		
NAL13041-073	CRHE-DPT0204-058.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7391	50	94		

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NAL13041-074	CRHE-DPT0205-010.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392				
NAL13041-074	CRHE-DPT0205-010.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392				
NAL13041-074	CRHE-DPT0205-010.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392				
NAL13041-074	CRHE-DPT0205-010.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392				
NAL13041-074	CRHE-DPT0205-010.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392				
NAL13041-074	CRHE-DPT0205-010.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392				
NAL13041-074	CRHE-DPT0205-010.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392	50	106		
NAL13041-074	CRHE-DPT0205-010.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392	50	106		
NAL13041-074	CRHE-DPT0205-010.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392	50	92		
NAL13041-074	CRHE-DPT0205-010.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7392	50	94		

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NAL13041-075	CRHE-DPT0205-018.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393				
NAL13041-075	CRHE-DPT0205-018.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393				
NAL13041-075	CRHE-DPT0205-018.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393				
NAL13041-075	CRHE-DPT0205-018.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393				
NAL13041-075	CRHE-DPT0205-018.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393				
NAL13041-075	CRHE-DPT0205-018.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393				
NAL13041-075	CRHE-DPT0205-018.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393	50	106		
NAL13041-075	CRHE-DPT0205-018.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393	50	104		
NAL13041-075	CRHE-DPT0205-018.0-20130321	SUR	2037-26-5	Toluene d8	48		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393	50	96		
NAL13041-075	CRHE-DPT0205-018.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7393	50	96		

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NAL13041-076	CRHE-DPT0205-023.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394				
NAL13041-076	CRHE-DPT0205-023.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394				
NAL13041-076	CRHE-DPT0205-023.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394				
NAL13041-076	CRHE-DPT0205-023.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394				
NAL13041-076	CRHE-DPT0205-023.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394				
NAL13041-076	CRHE-DPT0205-023.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394				
NAL13041-076	CRHE-DPT0205-023.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394	50	108		
NAL13041-076	CRHE-DPT0205-023.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394	50	102		
NAL13041-076	CRHE-DPT0205-023.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394	50	94		
NAL13041-076	CRHE-DPT0205-023.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7394	50	94		

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P032013ICV	P032013ICV	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	92		
P032013ICV	P032013ICV	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	94		
P032013ICV	P032013ICV	TRG	156-60-5	Trans-1,2-Dichloroethene	49		ug/L	1.0	0.28	NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	98		
P032013ICV	P032013ICV	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	102		
P032013ICV	P032013ICV	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	102		
P032013ICV	P032013ICV	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	108		
P032013ICV	P032013ICV	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	92		
P032013ICV	P032013ICV	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	84		
P032013ICV	P032013ICV	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	96		
P032013ICV	P032013ICV	SUR	460-00-4	Bromofluorobenzene	53		ug/L			NA	3/20/2013	3/20/2013	WQ	1	NA	NA	NA	SW8260B	NALP7343	50	106		

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P032013MBKA	P032013MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344				
P032013MBKA	P032013MBKA	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	104		
P032013MBKA	P032013MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	102		
P032013MBKA	P032013MBKA	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	92		
P032013MBKA	P032013MBKA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/20/2013	3/20/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7344	50	94		

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P032013ICVB	P032013ICVB	TRG	75-01-4	Vinyl Chloride	64		ug/L	1.0	0.13	NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	128		
P032013ICVB	P032013ICVB	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	100		
P032013ICVB	P032013ICVB	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	102		
P032013ICVB	P032013ICVB	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	106		
P032013ICVB	P032013ICVB	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	108		
P032013ICVB	P032013ICVB	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	100		
P032013ICVB	P032013ICVB	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	100		
P032013ICVB	P032013ICVB	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	98		
P032013ICVB	P032013ICVB	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	100		
P032013ICVB	P032013ICVB	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	NA	NA	SW8260B	NALP7376	50	104		

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FINAL ANALYTICAL REPORT

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ATTN: Ms. Jill Johnson

Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P032013MBKB	P032013MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377				
P032013MBKB	P032013MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377				
P032013MBKB	P032013MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377				
P032013MBKB	P032013MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377				
P032013MBKB	P032013MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377				
P032013MBKB	P032013MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377				
P032013MBKB	P032013MBKB	SUR	1868-53-7	Dibromofluoromethane	41		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377	50	82		
P032013MBKB	P032013MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377	50	108		
P032013MBKB	P032013MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377	50	94		
P032013MBKB	P032013MBKB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7377	50	96		

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P032113ALCS	P032113ALCS	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	102		
P032113ALCS	P032113ALCS	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	96		
P032113ALCS	P032113ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	102		
P032113ALCS	P032113ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	104		
P032113ALCS	P032113ALCS	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	104		
P032113ALCS	P032113ALCS	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	108		
P032113ALCS	P032113ALCS	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	98		
P032113ALCS	P032113ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	96		
P032113ALCS	P032113ALCS	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	100		
P032113ALCS	P032113ALCS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7397	50	102		

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NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	118		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	TRG	75-35-4	1,1-Dichloroethene	55		ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	110		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	TRG	156-60-5	Trans-1,2-Dichloroethene	58		ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	116		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	TRG	156-59-2	Cis-1,2-Dichloroethene	59		ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	118		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	TRG	79-01-6	Trichloroethene	58		ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	116		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	TRG	127-18-4	Tetrachloroethene	60		ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	120		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	98		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	96		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	SUR	2037-26-5	Toluene d8	50		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	100		
NAL13041-075MS	CRHE-DPT0205-018.0-20130321MS	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7395	50	98		

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NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	TRG	75-01-4	Vinyl Chloride	50		ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	100	17	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	98	12	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	100	15	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	100	17	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	100	15	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	108	11	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	98	0	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	94	2	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	SUR	2037-26-5	Toluene d8	51		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	102	2	
NAL13041-075MSD	CRHE-DPT0205-018.0-20130321MSD	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7396	50	100	2	

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NAL13041-077	CRHE-DPT0205-028.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402				
NAL13041-077	CRHE-DPT0205-028.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402				
NAL13041-077	CRHE-DPT0205-028.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402				
NAL13041-077	CRHE-DPT0205-028.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402				
NAL13041-077	CRHE-DPT0205-028.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402				
NAL13041-077	CRHE-DPT0205-028.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402				
NAL13041-077	CRHE-DPT0205-028.0-20130321	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402	50	104		
NAL13041-077	CRHE-DPT0205-028.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402	50	102		
NAL13041-077	CRHE-DPT0205-028.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402	50	94		
NAL13041-077	CRHE-DPT0205-028.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7402	50	94		

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NAL13041-078	CRHE-DPT0205-033.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403				
NAL13041-078	CRHE-DPT0205-033.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403				
NAL13041-078	CRHE-DPT0205-033.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403				
NAL13041-078	CRHE-DPT0205-033.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403				
NAL13041-078	CRHE-DPT0205-033.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403				
NAL13041-078	CRHE-DPT0205-033.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403				
NAL13041-078	CRHE-DPT0205-033.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403	50	108		
NAL13041-078	CRHE-DPT0205-033.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403	50	104		
NAL13041-078	CRHE-DPT0205-033.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403	50	94		
NAL13041-078	CRHE-DPT0205-033.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7403	50	94		

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ATTN: Ms. Jill Johnson

Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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NAL13041-080	CRHE-DPT0205-043.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	50	6.5	3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405				
NAL13041-080	CRHE-DPT0205-043.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405				
NAL13041-080	CRHE-DPT0205-043.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405				
NAL13041-080	CRHE-DPT0205-043.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	760		ug/L	50	10	3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405				
NAL13041-080	CRHE-DPT0205-043.0-20130321	TRG	79-01-6	Trichloroethene	370		ug/L	50	11	3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405				
NAL13041-080	CRHE-DPT0205-043.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405				
NAL13041-080	CRHE-DPT0205-043.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405	50	106		
NAL13041-080	CRHE-DPT0205-043.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405	50	104		
NAL13041-080	CRHE-DPT0205-043.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405	50	92		
NAL13041-080	CRHE-DPT0205-043.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7405	50	94		

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NAL13041-081	CRHE-DPT0205-058.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406				
NAL13041-081	CRHE-DPT0205-058.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406				
NAL13041-081	CRHE-DPT0205-058.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406				
NAL13041-081	CRHE-DPT0205-058.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406				
NAL13041-081	CRHE-DPT0205-058.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406				
NAL13041-081	CRHE-DPT0205-058.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406				
NAL13041-081	CRHE-DPT0205-058.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406	50	108		
NAL13041-081	CRHE-DPT0205-058.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406	50	106		
NAL13041-081	CRHE-DPT0205-058.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406	50	94		
NAL13041-081	CRHE-DPT0205-058.0-20130321	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7406	50	98		

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NAL13041-082	CRHE-DPT0206-010.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407				
NAL13041-082	CRHE-DPT0206-010.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407				
NAL13041-082	CRHE-DPT0206-010.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407				
NAL13041-082	CRHE-DPT0206-010.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407				
NAL13041-082	CRHE-DPT0206-010.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407				
NAL13041-082	CRHE-DPT0206-010.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407				
NAL13041-082	CRHE-DPT0206-010.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407	50	106		
NAL13041-082	CRHE-DPT0206-010.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407	50	104		
NAL13041-082	CRHE-DPT0206-010.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407	50	92		
NAL13041-082	CRHE-DPT0206-010.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7407	50	96		

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NAL13041-083	CRHE-DPT0206-018.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408				
NAL13041-083	CRHE-DPT0206-018.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408				
NAL13041-083	CRHE-DPT0206-018.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408				
NAL13041-083	CRHE-DPT0206-018.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408				
NAL13041-083	CRHE-DPT0206-018.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408				
NAL13041-083	CRHE-DPT0206-018.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408				
NAL13041-083	CRHE-DPT0206-018.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408	50	108		
NAL13041-083	CRHE-DPT0206-018.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408	50	106		
NAL13041-083	CRHE-DPT0206-018.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408	50	94		
NAL13041-083	CRHE-DPT0206-018.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7408	50	94		

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NAL13041-084	CRHE-DPT0206-023.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409				
NAL13041-084	CRHE-DPT0206-023.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409				
NAL13041-084	CRHE-DPT0206-023.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409				
NAL13041-084	CRHE-DPT0206-023.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409				
NAL13041-084	CRHE-DPT0206-023.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409				
NAL13041-084	CRHE-DPT0206-023.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409				
NAL13041-084	CRHE-DPT0206-023.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409	50	106		
NAL13041-084	CRHE-DPT0206-023.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409	50	104		
NAL13041-084	CRHE-DPT0206-023.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409	50	92		
NAL13041-084	CRHE-DPT0206-023.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7409	50	94		

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NAL13041-085	CRHE-DPT0206-028.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410				
NAL13041-085	CRHE-DPT0206-028.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410				
NAL13041-085	CRHE-DPT0206-028.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410				
NAL13041-085	CRHE-DPT0206-028.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410				
NAL13041-085	CRHE-DPT0206-028.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410				
NAL13041-085	CRHE-DPT0206-028.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410				
NAL13041-085	CRHE-DPT0206-028.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410	50	108		
NAL13041-085	CRHE-DPT0206-028.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410	50	106		
NAL13041-085	CRHE-DPT0206-028.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410	50	94		
NAL13041-085	CRHE-DPT0206-028.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7410	50	94		

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NAL13041-086	CRHE-DPT0206-033.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411				
NAL13041-086	CRHE-DPT0206-033.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411				
NAL13041-086	CRHE-DPT0206-033.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411				
NAL13041-086	CRHE-DPT0206-033.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411				
NAL13041-086	CRHE-DPT0206-033.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411				
NAL13041-086	CRHE-DPT0206-033.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411				
NAL13041-086	CRHE-DPT0206-033.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411	50	106		
NAL13041-086	CRHE-DPT0206-033.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411	50	104		
NAL13041-086	CRHE-DPT0206-033.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411	50	92		
NAL13041-086	CRHE-DPT0206-033.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/21/2013	3/21/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7411	50	94		

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NAL13041-089	CRHE-DPT0206-058.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414				
NAL13041-089	CRHE-DPT0206-058.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414				
NAL13041-089	CRHE-DPT0206-058.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414				
NAL13041-089	CRHE-DPT0206-058.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414				
NAL13041-089	CRHE-DPT0206-058.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414				
NAL13041-089	CRHE-DPT0206-058.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414				
NAL13041-089	CRHE-DPT0206-058.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414	50	106		
NAL13041-089	CRHE-DPT0206-058.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414	50	104		
NAL13041-089	CRHE-DPT0206-058.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414	50	92		
NAL13041-089	CRHE-DPT0206-058.0-20130321	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7414	50	92		

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NAL13041-090	CRHE-DPT0207-010.0-20130321	TRG	75-01-4	Vinyl Chloride	28	JL	ug/L	10.0	1.30	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416				
NAL13041-090	CRHE-DPT0207-010.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10.0	1.80	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416				
NAL13041-090	CRHE-DPT0207-010.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10.0	2.80	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416				
NAL13041-090	CRHE-DPT0207-010.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	120	JL	ug/L	10.0	2.00	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416				
NAL13041-090	CRHE-DPT0207-010.0-20130321	TRG	79-01-6	Trichloroethene	79		ug/L	10.0	2.20	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416				
NAL13041-090	CRHE-DPT0207-010.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	10.0	1.60	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416				
NAL13041-090	CRHE-DPT0207-010.0-20130321	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416	50	108		
NAL13041-090	CRHE-DPT0207-010.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416	50	104		
NAL13041-090	CRHE-DPT0207-010.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416	50	92		
NAL13041-090	CRHE-DPT0207-010.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7416	50	96		

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NAL13041-092	CRHE-DPT0207-023.0-20130321	TRG	75-01-4	Vinyl Chloride	3700	L	ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415				
NAL13041-092	CRHE-DPT0207-023.0-20130321	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415				
NAL13041-092	CRHE-DPT0207-023.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene	320	L	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415				
NAL13041-092	CRHE-DPT0207-023.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	5900	L	ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415				
NAL13041-092	CRHE-DPT0207-023.0-20130321	TRG	79-01-6	Trichloroethene	2.5		ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415				
NAL13041-092	CRHE-DPT0207-023.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415				
NAL13041-092	CRHE-DPT0207-023.0-20130321	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415	50	100		
NAL13041-092	CRHE-DPT0207-023.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415	50	100		
NAL13041-092	CRHE-DPT0207-023.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415	50	94		
NAL13041-092	CRHE-DPT0207-023.0-20130321	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7415	50	98		

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NAL13041-093	CRHE-DPT0207-028.0-20130321	TRG	75-01-4	Vinyl Chloride	960	JL	ug/L	250	33	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418				
NAL13041-093	CRHE-DPT0207-028.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418				
NAL13041-093	CRHE-DPT0207-028.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418				
NAL13041-093	CRHE-DPT0207-028.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	510	JL	ug/L	250	50	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418				
NAL13041-093	CRHE-DPT0207-028.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418				
NAL13041-093	CRHE-DPT0207-028.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418				
NAL13041-093	CRHE-DPT0207-028.0-20130321	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418	50	90		
NAL13041-093	CRHE-DPT0207-028.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418	50	106		
NAL13041-093	CRHE-DPT0207-028.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418	50	90		
NAL13041-093	CRHE-DPT0207-028.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7418	50	94		

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NAL13041-094	CRHE-DPT0207-033.0-20130321	TRG	75-01-4	Vinyl Chloride	5300	JL	ug/L	250	33	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419				
NAL13041-094	CRHE-DPT0207-033.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419				
NAL13041-094	CRHE-DPT0207-033.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419				
NAL13041-094	CRHE-DPT0207-033.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	4400	JL	ug/L	250	50	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419				
NAL13041-094	CRHE-DPT0207-033.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	250	55	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419				
NAL13041-094	CRHE-DPT0207-033.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419				
NAL13041-094	CRHE-DPT0207-033.0-20130321	SUR	1868-53-7	Dibromofluoromethane	39		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419	50	78		
NAL13041-094	CRHE-DPT0207-033.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419	50	108		
NAL13041-094	CRHE-DPT0207-033.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419	50	90		
NAL13041-094	CRHE-DPT0207-033.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7419	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-095	CRHE-DPT0207-038.0-20130321	TRG	75-01-4	Vinyl Chloride	290	JL	ug/L	10	1.3	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420				
NAL13041-095	CRHE-DPT0207-038.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420				
NAL13041-095	CRHE-DPT0207-038.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420				
NAL13041-095	CRHE-DPT0207-038.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	47	JL	ug/L	10	2.0	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420				
NAL13041-095	CRHE-DPT0207-038.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420				
NAL13041-095	CRHE-DPT0207-038.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420				
NAL13041-095	CRHE-DPT0207-038.0-20130321	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420	50	112		
NAL13041-095	CRHE-DPT0207-038.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420	50	112		
NAL13041-095	CRHE-DPT0207-038.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420	50	92		
NAL13041-095	CRHE-DPT0207-038.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7420	50	94		

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P032113CCVA	P032113CCVA	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	98		
P032113CCVA	P032113CCVA	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	96		
P032113CCVA	P032113CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	49		ug/L	1.0	0.28	NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	98		
P032113CCVA	P032113CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	104		
P032113CCVA	P032113CCVA	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	104		
P032113CCVA	P032113CCVA	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	104		
P032113CCVA	P032113CCVA	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	102		
P032113CCVA	P032113CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	100		
P032113CCVA	P032113CCVA	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	98		
P032113CCVA	P032113CCVA	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/21/2013	3/21/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7398	50	102		

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P032113MBKB	P032113MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400				
P032113MBKB	P032113MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400				
P032113MBKB	P032113MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400				
P032113MBKB	P032113MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400				
P032113MBKB	P032113MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400				
P032113MBKB	P032113MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400				
P032113MBKB	P032113MBKB	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400	50	106		
P032113MBKB	P032113MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400	50	104		
P032113MBKB	P032113MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400	50	94		
P032113MBKB	P032113MBKB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/21/2013	3/21/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7400	50	98		

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P032113CCVB	P032113CCVB	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	102		
P032113CCVB	P032113CCVB	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	96		
P032113CCVB	P032113CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	104		
P032113CCVB	P032113CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	106		
P032113CCVB	P032113CCVB	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	108		
P032113CCVB	P032113CCVB	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	104		
P032113CCVB	P032113CCVB	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	102		
P032113CCVB	P032113CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	96		
P032113CCVB	P032113CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	98		
P032113CCVB	P032113CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	98		

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P032113BLCS	P032113BLCS	TRG	75-01-4	Vinyl Chloride	42		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	84		
P032113BLCS	P032113BLCS	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	84		
P032113BLCS	P032113BLCS	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	90		
P032113BLCS	P032113BLCS	TRG	156-59-2	Cis-1,2-Dichloroethene	49		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	98		
P032113BLCS	P032113BLCS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	102		
P032113BLCS	P032113BLCS	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	100		
P032113BLCS	P032113BLCS	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	100		
P032113BLCS	P032113BLCS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	98		
P032113BLCS	P032113BLCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	98		
P032113BLCS	P032113BLCS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7422	50	104		

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P032113BLCD	P032113BLCD	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	98	15	
P032113BLCD	P032113BLCD	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	100	17	
P032113BLCD	P032113BLCD	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	104	14	
P032113BLCD	P032113BLCD	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	106	8	
P032113BLCD	P032113BLCD	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	106	4	
P032113BLCD	P032113BLCD	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	104	4	
P032113BLCD	P032113BLCD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	102	2	
P032113BLCD	P032113BLCD	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	98	0	
P032113BLCD	P032113BLCD	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	98	0	
P032113BLCD	P032113BLCD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7423	50	102	2	

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	100		2.1
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	100		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	106		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	156-59-2	Cis-1,2-Dichloroethene	70		ug/L	1.0	0.20	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	106		17
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	79-01-6	Trichloroethene	58		ug/L	1.0	0.22	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	106		5.0
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	108		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	102		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	98		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	2037-26-5	Toluene d8	49		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	98		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7424	50	102		

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NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	75-01-4	Vinyl Chloride	61		ug/L	1.0	0.13	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	118	16	2.1
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	75-35-4	1,1-Dichloroethene	57		ug/L	1.0	0.18	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	114	13	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	60		ug/L	1.0	0.28	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	120	12	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	80		ug/L	1.0	0.20	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	126	13	17
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	79-01-6	Trichloroethene	65		ug/L	1.0	0.22	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	120	11	5.0
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	127-18-4	Tetrachloroethene	60		ug/L	1.0	0.16	3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	120	11	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	100	2	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	96	2	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	2037-26-5	Toluene d8	49		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	98	0	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/20/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7425	50	102	0	

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NAL13041-096	CRHE-DPT0207-043.0-20130321	TRG	75-01-4	Vinyl Chloride	2.9		ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427				
NAL13041-096	CRHE-DPT0207-043.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427				
NAL13041-096	CRHE-DPT0207-043.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427				
NAL13041-096	CRHE-DPT0207-043.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	3.6		ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427				
NAL13041-096	CRHE-DPT0207-043.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427				
NAL13041-096	CRHE-DPT0207-043.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427				
NAL13041-096	CRHE-DPT0207-043.0-20130321	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427	50	110		
NAL13041-096	CRHE-DPT0207-043.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427	50	110		
NAL13041-096	CRHE-DPT0207-043.0-20130321	SUR	2037-26-5	Toluene d8	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427	50	94		
NAL13041-096	CRHE-DPT0207-043.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7427	50	96		

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NAL13041-097	CRHE-DPT0207-058.0-20130321	TRG	75-01-4	Vinyl Chloride	1.3		ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428				
NAL13041-097	CRHE-DPT0207-058.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428				
NAL13041-097	CRHE-DPT0207-058.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428				
NAL13041-097	CRHE-DPT0207-058.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	6.4		ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428				
NAL13041-097	CRHE-DPT0207-058.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428				
NAL13041-097	CRHE-DPT0207-058.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428				
NAL13041-097	CRHE-DPT0207-058.0-20130321	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428	50	106		
NAL13041-097	CRHE-DPT0207-058.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428	50	106		
NAL13041-097	CRHE-DPT0207-058.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428	50	92		
NAL13041-097	CRHE-DPT0207-058.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7428	50	96		

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NAL13041-098	CRHE-DPT0202-068.0-20130321	TRG	75-01-4	Vinyl Chloride	0.97	I	ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429				
NAL13041-098	CRHE-DPT0202-068.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429				
NAL13041-098	CRHE-DPT0202-068.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429				
NAL13041-098	CRHE-DPT0202-068.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	21		ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429				
NAL13041-098	CRHE-DPT0202-068.0-20130321	TRG	79-01-6	Trichloroethene	0.73	I	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429				
NAL13041-098	CRHE-DPT0202-068.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429				
NAL13041-098	CRHE-DPT0202-068.0-20130321	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429	50	96		
NAL13041-098	CRHE-DPT0202-068.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429	50	92		
NAL13041-098	CRHE-DPT0202-068.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429	50	92		
NAL13041-098	CRHE-DPT0202-068.0-20130321	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7429	50	92		

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NAL13041-099	CRHE-DPT0208-010.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430				
NAL13041-099	CRHE-DPT0208-010.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430				
NAL13041-099	CRHE-DPT0208-010.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	1.3		ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430				
NAL13041-099	CRHE-DPT0208-010.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430				
NAL13041-099	CRHE-DPT0208-010.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430				
NAL13041-099	CRHE-DPT0208-010.0-20130321	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430	50	100		
NAL13041-099	CRHE-DPT0208-010.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430	50	94		
NAL13041-099	CRHE-DPT0208-010.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430	50	90		
NAL13041-099	CRHE-DPT0208-010.0-20130321	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7430	50	92		

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NAL13041-100	CRHE-DPT0208-018.0-20130321	TRG	75-01-4	Vinyl Chloride	10		ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431				
NAL13041-100	CRHE-DPT0208-018.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431				
NAL13041-100	CRHE-DPT0208-018.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431				
NAL13041-100	CRHE-DPT0208-018.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431				
NAL13041-100	CRHE-DPT0208-018.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431				
NAL13041-100	CRHE-DPT0208-018.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431				
NAL13041-100	CRHE-DPT0208-018.0-20130321	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431	50	104		
NAL13041-100	CRHE-DPT0208-018.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431	50	102		
NAL13041-100	CRHE-DPT0208-018.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431	50	90		
NAL13041-100	CRHE-DPT0208-018.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7431	50	94		

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NAL13041-102	CRHE-DPT0208-028.0-20130321	TRG	75-01-4	Vinyl Chloride	1000		ug/L	5.0	0.65	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434				
NAL13041-102	CRHE-DPT0208-028.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	5.0	0.90	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434				
NAL13041-102	CRHE-DPT0208-028.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene	9.6		ug/L	5.0	1.40	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434				
NAL13041-102	CRHE-DPT0208-028.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	5.0	1.00	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434				
NAL13041-102	CRHE-DPT0208-028.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	5.0	1.10	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434				
NAL13041-102	CRHE-DPT0208-028.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	5.0	0.80	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434				
NAL13041-102	CRHE-DPT0208-028.0-20130321	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434	50	102		
NAL13041-102	CRHE-DPT0208-028.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434	50	100		
NAL13041-102	CRHE-DPT0208-028.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434	50	90		
NAL13041-102	CRHE-DPT0208-028.0-20130321	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7434	50	92		

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NAL13041-103	CRHE-DPT0208-033.0-20130321	TRG	75-01-4	Vinyl Chloride	1600	L	ug/L	5.0	0.65	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440				
NAL13041-103	CRHE-DPT0208-033.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	5.0	0.90	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440				
NAL13041-103	CRHE-DPT0208-033.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	5.0	1.40	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440				
NAL13041-103	CRHE-DPT0208-033.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	5.0	1.00	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440				
NAL13041-103	CRHE-DPT0208-033.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	5.0	1.10	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440				
NAL13041-103	CRHE-DPT0208-033.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	5.0	0.80	3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440				
NAL13041-103	CRHE-DPT0208-033.0-20130321	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440	50	104		
NAL13041-103	CRHE-DPT0208-033.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440	50	100		
NAL13041-103	CRHE-DPT0208-033.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440	50	92		
NAL13041-103	CRHE-DPT0208-033.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7440	50	94		

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NAL13041-104	CRHE-IDW193858-20130321	TRG	75-01-4	Vinyl Chloride	64		ug/L	1.0	0.13	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436				
NAL13041-104	CRHE-IDW193858-20130321	TRG	75-35-4	1,1-Dichloroethene	1.1		ug/L	1.0	0.18	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436				
NAL13041-104	CRHE-IDW193858-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene	16		ug/L	1.0	0.28	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436				
NAL13041-104	CRHE-IDW193858-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	940	L	ug/L	1.0	0.20	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436				
NAL13041-104	CRHE-IDW193858-20130321	TRG	79-01-6	Trichloroethene	180		ug/L	1.0	0.22	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436				
NAL13041-104	CRHE-IDW193858-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436				
NAL13041-104	CRHE-IDW193858-20130321	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436	50	104		
NAL13041-104	CRHE-IDW193858-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436	50	102		
NAL13041-104	CRHE-IDW193858-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436	50	92		
NAL13041-104	CRHE-IDW193858-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7436	50	94		

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NAL13041-105	CRHE-DPT0208-038.0-20130322	TRG	75-01-4	Vinyl Chloride	7.5	I	ug/L	10	1.3	3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447				
NAL13041-105	CRHE-DPT0208-038.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447				
NAL13041-105	CRHE-DPT0208-038.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447				
NAL13041-105	CRHE-DPT0208-038.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	21		ug/L	10	2.0	3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447				
NAL13041-105	CRHE-DPT0208-038.0-20130322	TRG	79-01-6	Trichloroethene	13		ug/L	10	2.2	3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447				
NAL13041-105	CRHE-DPT0208-038.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447				
NAL13041-105	CRHE-DPT0208-038.0-20130322	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447	50	106		
NAL13041-105	CRHE-DPT0208-038.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447	50	106		
NAL13041-105	CRHE-DPT0208-038.0-20130322	SUR	2037-26-5	Toluene d8	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447	50	94		
NAL13041-105	CRHE-DPT0208-038.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7447	50	94		

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NAL13041-106	CRHE-DPT0208-043.0-20130322	TRG	75-01-4	Vinyl Chloride	24		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448				
NAL13041-106	CRHE-DPT0208-043.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448				
NAL13041-106	CRHE-DPT0208-043.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448				
NAL13041-106	CRHE-DPT0208-043.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	2.8		ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448				
NAL13041-106	CRHE-DPT0208-043.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448				
NAL13041-106	CRHE-DPT0208-043.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448				
NAL13041-106	CRHE-DPT0208-043.0-20130322	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448	50	108		
NAL13041-106	CRHE-DPT0208-043.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448	50	104		
NAL13041-106	CRHE-DPT0208-043.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448	50	92		
NAL13041-106	CRHE-DPT0208-043.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7448	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-107	CRHE-DPT0208-058.0-20130322	TRG	75-01-4	Vinyl Chloride	3.5		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435				
NAL13041-107	CRHE-DPT0208-058.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435				
NAL13041-107	CRHE-DPT0208-058.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435				
NAL13041-107	CRHE-DPT0208-058.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	5.0		ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435				
NAL13041-107	CRHE-DPT0208-058.0-20130322	TRG	79-01-6	Trichloroethene	2.3		ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435				
NAL13041-107	CRHE-DPT0208-058.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435				
NAL13041-107	CRHE-DPT0208-058.0-20130322	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435	50	100		
NAL13041-107	CRHE-DPT0208-058.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435	50	94		
NAL13041-107	CRHE-DPT0208-058.0-20130322	SUR	2037-26-5	Toluene d8	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435	50	94		
NAL13041-107	CRHE-DPT0208-058.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7435	50	94		

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NAL13041-108	CRHE-DPT0209-010.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449				
NAL13041-108	CRHE-DPT0209-010.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449				
NAL13041-108	CRHE-DPT0209-010.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449				
NAL13041-108	CRHE-DPT0209-010.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449				
NAL13041-108	CRHE-DPT0209-010.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449				
NAL13041-108	CRHE-DPT0209-010.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449				
NAL13041-108	CRHE-DPT0209-010.0-20130322	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449	50	106		
NAL13041-108	CRHE-DPT0209-010.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449	50	106		
NAL13041-108	CRHE-DPT0209-010.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449	50	92		
NAL13041-108	CRHE-DPT0209-010.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7449	50	94		

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NAL13041-109	CRHE-DPT0209-018.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450				
NAL13041-109	CRHE-DPT0209-018.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450				
NAL13041-109	CRHE-DPT0209-018.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450				
NAL13041-109	CRHE-DPT0209-018.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450				
NAL13041-109	CRHE-DPT0209-018.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450				
NAL13041-109	CRHE-DPT0209-018.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450				
NAL13041-109	CRHE-DPT0209-018.0-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450	50	110		
NAL13041-109	CRHE-DPT0209-018.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450	50	108		
NAL13041-109	CRHE-DPT0209-018.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450	50	92		
NAL13041-109	CRHE-DPT0209-018.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7450	50	94		

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NAL13041-110	CRHE-DPT0209-023.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441				
NAL13041-110	CRHE-DPT0209-023.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441				
NAL13041-110	CRHE-DPT0209-023.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441				
NAL13041-110	CRHE-DPT0209-023.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441				
NAL13041-110	CRHE-DPT0209-023.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441				
NAL13041-110	CRHE-DPT0209-023.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441				
NAL13041-110	CRHE-DPT0209-023.0-20130322	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441	50	92		
NAL13041-110	CRHE-DPT0209-023.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441	50	86		
NAL13041-110	CRHE-DPT0209-023.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441	50	92		
NAL13041-110	CRHE-DPT0209-023.0-20130322	SUR	460-00-4	Bromofluorobenzene	45		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7441	50	90		

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NAL13041-111	CRHE-DPT0209-028.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451				
NAL13041-111	CRHE-DPT0209-028.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451				
NAL13041-111	CRHE-DPT0209-028.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451				
NAL13041-111	CRHE-DPT0209-028.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451				
NAL13041-111	CRHE-DPT0209-028.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451				
NAL13041-111	CRHE-DPT0209-028.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451				
NAL13041-111	CRHE-DPT0209-028.0-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451	50	110		
NAL13041-111	CRHE-DPT0209-028.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451	50	106		
NAL13041-111	CRHE-DPT0209-028.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451	50	92		
NAL13041-111	CRHE-DPT0209-028.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7451	50	94		

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NAL13041-112	CRHE-DPT0209-033.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452				
NAL13041-112	CRHE-DPT0209-033.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452				
NAL13041-112	CRHE-DPT0209-033.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452				
NAL13041-112	CRHE-DPT0209-033.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452				
NAL13041-112	CRHE-DPT0209-033.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452				
NAL13041-112	CRHE-DPT0209-033.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452				
NAL13041-112	CRHE-DPT0209-033.0-20130322	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452	50	108		
NAL13041-112	CRHE-DPT0209-033.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452	50	106		
NAL13041-112	CRHE-DPT0209-033.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452	50	92		
NAL13041-112	CRHE-DPT0209-033.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7452	50	94		

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NAL13041-113	CRHE-DPT0209-038.0-20130322	TRG	75-01-4	Vinyl Chloride	110		ug/L	100	13	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453				
NAL13041-113	CRHE-DPT0209-038.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453				
NAL13041-113	CRHE-DPT0209-038.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453				
NAL13041-113	CRHE-DPT0209-038.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	100	20	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453				
NAL13041-113	CRHE-DPT0209-038.0-20130322	TRG	79-01-6	Trichloroethene	39	J	ug/L	100	22	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453				
NAL13041-113	CRHE-DPT0209-038.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453				
NAL13041-113	CRHE-DPT0209-038.0-20130322	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453	50	108		
NAL13041-113	CRHE-DPT0209-038.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453	50	104		
NAL13041-113	CRHE-DPT0209-038.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453	50	92		
NAL13041-113	CRHE-DPT0209-038.0-20130322	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7453	50	92		

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NAL13041-115	CRHE-DPT0209-058.0-20130322	TRG	75-01-4	Vinyl Chloride	1.2		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438				
NAL13041-115	CRHE-DPT0209-058.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438				
NAL13041-115	CRHE-DPT0209-058.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438				
NAL13041-115	CRHE-DPT0209-058.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438				
NAL13041-115	CRHE-DPT0209-058.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438				
NAL13041-115	CRHE-DPT0209-058.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438				
NAL13041-115	CRHE-DPT0209-058.0-20130322	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438	50	96		
NAL13041-115	CRHE-DPT0209-058.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438	50	90		
NAL13041-115	CRHE-DPT0209-058.0-20130322	SUR	2037-26-5	Toluene d8	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438	50	94		
NAL13041-115	CRHE-DPT0209-058.0-20130322	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7438	50	92		

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NAL13041-123	CRHE-DPT0210-058.0-20130322	TRG	75-01-4	Vinyl Chloride	1.7		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439				
NAL13041-123	CRHE-DPT0210-058.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439				
NAL13041-123	CRHE-DPT0210-058.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439				
NAL13041-123	CRHE-DPT0210-058.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	26		ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439				
NAL13041-123	CRHE-DPT0210-058.0-20130322	TRG	79-01-6	Trichloroethene	7.3		ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439				
NAL13041-123	CRHE-DPT0210-058.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439				
NAL13041-123	CRHE-DPT0210-058.0-20130322	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439	50	108		
NAL13041-123	CRHE-DPT0210-058.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439	50	106		
NAL13041-123	CRHE-DPT0210-058.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439	50	92		
NAL13041-123	CRHE-DPT0210-058.0-20130322	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7439	50	92		

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P032113CCVB	P032113CCVB	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	102		
P032113CCVB	P032113CCVB	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	96		
P032113CCVB	P032113CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	104		
P032113CCVB	P032113CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	106		
P032113CCVB	P032113CCVB	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	108		
P032113CCVB	P032113CCVB	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	104		
P032113CCVB	P032113CCVB	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	102		
P032113CCVB	P032113CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	96		
P032113CCVB	P032113CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	98		
P032113CCVB	P032113CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7421	50	98		

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P032113MBKC	P032113MBKC	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426				
P032113MBKC	P032113MBKC	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426				
P032113MBKC	P032113MBKC	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426				
P032113MBKC	P032113MBKC	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426				
P032113MBKC	P032113MBKC	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426				
P032113MBKC	P032113MBKC	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426				
P032113MBKC	P032113MBKC	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426	50	110		
P032113MBKC	P032113MBKC	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426	50	112		
P032113MBKC	P032113MBKC	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426	50	92		
P032113MBKC	P032113MBKC	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7426	50	96		

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P032213CCVA	P032213CCVA	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	98		
P032213CCVA	P032213CCVA	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	96		
P032213CCVA	P032213CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	100		
P032213CCVA	P032213CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	104		
P032213CCVA	P032213CCVA	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	108		
P032213CCVA	P032213CCVA	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	108		
P032213CCVA	P032213CCVA	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	96		
P032213CCVA	P032213CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	90		
P032213CCVA	P032213CCVA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	96		
P032213CCVA	P032213CCVA	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	98		

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P032213MBKA	P032213MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	106		
P032213MBKA	P032213MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	104		
P032213MBKA	P032213MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	94		
P032213MBKA	P032213MBKA	SUR	460-00-4	Bromofluorobenzene	46		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	92		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P032213ALCS	P032213ALCS	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	96		
P032213ALCS	P032213ALCS	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	98		
P032213ALCS	P032213ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	49		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	98		
P032213ALCS	P032213ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	100		
P032213ALCS	P032213ALCS	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	104		
P032213ALCS	P032213ALCS	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	108		
P032213ALCS	P032213ALCS	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	96		
P032213ALCS	P032213ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	92		
P032213ALCS	P032213ALCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	98		
P032213ALCS	P032213ALCS	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7443	50	98		

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NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	102		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	TRG	75-35-4	1,1-Dichloroethene	53		ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	106		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	108		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	112		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	TRG	79-01-6	Trichloroethene	56		ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	112		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	TRG	127-18-4	Tetrachloroethene	57		ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	114		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	94		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	90		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	SUR	2037-26-5	Toluene d8	49		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	98		
NAL13041-110MS	CRHE-DPT0209-023.0-20130322MS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7444	50	102		

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NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	92	10	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	TRG	75-35-4	1,1-Dichloroethene	52		ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	104	2	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	102	6	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	110	2	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	106	6	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	TRG	127-18-4	Tetrachloroethene	57		ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	114	0	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	92	2	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	88	2	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	SUR	2037-26-5	Toluene d8	48		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	96	2	
NAL13041-110MSD	CRHE-DPT0209-023.0-20130322MSD	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7445	50	104	2	

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NAL13041-114	CRHE-DPT0209-043.0-20130322	TRG	75-01-4	Vinyl Chloride	460		ug/L	100	13	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454				
NAL13041-114	CRHE-DPT0209-043.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454				
NAL13041-114	CRHE-DPT0209-043.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454				
NAL13041-114	CRHE-DPT0209-043.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	100	20	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454				
NAL13041-114	CRHE-DPT0209-043.0-20130322	TRG	79-01-6	Trichloroethene	36	I	ug/L	100	22	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454				
NAL13041-114	CRHE-DPT0209-043.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454				
NAL13041-114	CRHE-DPT0209-043.0-20130322	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454	50	108		
NAL13041-114	CRHE-DPT0209-043.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454	50	106		
NAL13041-114	CRHE-DPT0209-043.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454	50	92		
NAL13041-114	CRHE-DPT0209-043.0-20130322	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7454	50	92		

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NAL13041-116	CRHE-DPT0210-010.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455				
NAL13041-116	CRHE-DPT0210-010.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455				
NAL13041-116	CRHE-DPT0210-010.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455				
NAL13041-116	CRHE-DPT0210-010.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455				
NAL13041-116	CRHE-DPT0210-010.0-20130322	TRG	79-01-6	Trichloroethene	0.43	I	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455				
NAL13041-116	CRHE-DPT0210-010.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455				
NAL13041-116	CRHE-DPT0210-010.0-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455	50	110		
NAL13041-116	CRHE-DPT0210-010.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455	50	108		
NAL13041-116	CRHE-DPT0210-010.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455	50	92		
NAL13041-116	CRHE-DPT0210-010.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7455	50	94		

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NAL13041-117	CRHE-DPT0210-018.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456				
NAL13041-117	CRHE-DPT0210-018.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456				
NAL13041-117	CRHE-DPT0210-018.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456				
NAL13041-117	CRHE-DPT0210-018.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456				
NAL13041-117	CRHE-DPT0210-018.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456				
NAL13041-117	CRHE-DPT0210-018.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456				
NAL13041-117	CRHE-DPT0210-018.0-20130322	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456	50	104		
NAL13041-117	CRHE-DPT0210-018.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456	50	102		
NAL13041-117	CRHE-DPT0210-018.0-20130322	SUR	2037-26-5	Toluene d8	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456	50	92		
NAL13041-117	CRHE-DPT0210-018.0-20130322	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7456	50	92		

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NAL13041-118	CRHE-DPT0210-023.0-20130322	TRG	75-01-4	Vinyl Chloride	1.0		ug/L	1.0	0.13	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457				
NAL13041-118	CRHE-DPT0210-023.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457				
NAL13041-118	CRHE-DPT0210-023.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457				
NAL13041-118	CRHE-DPT0210-023.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	4.5		ug/L	1.0	0.20	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457				
NAL13041-118	CRHE-DPT0210-023.0-20130322	TRG	79-01-6	Trichloroethene	0.35	I	ug/L	1.0	0.22	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457				
NAL13041-118	CRHE-DPT0210-023.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457				
NAL13041-118	CRHE-DPT0210-023.0-20130322	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457	50	108		
NAL13041-118	CRHE-DPT0210-023.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457	50	104		
NAL13041-118	CRHE-DPT0210-023.0-20130322	SUR	2037-26-5	Toluene d8	45		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457	50	90		
NAL13041-118	CRHE-DPT0210-023.0-20130322	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/22/2013	3/22/2013	3/22/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7457	50	98		

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NAL13041-119	CRHE-DPT0210-028.0-20130322	TRG	75-01-4	Vinyl Chloride	0.27	I	ug/L	1.0	0.13	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458				
NAL13041-119	CRHE-DPT0210-028.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458				
NAL13041-119	CRHE-DPT0210-028.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458				
NAL13041-119	CRHE-DPT0210-028.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	1.1		ug/L	1.0	0.20	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458				
NAL13041-119	CRHE-DPT0210-028.0-20130322	TRG	79-01-6	Trichloroethene	4.4		ug/L	1.0	0.22	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458				
NAL13041-119	CRHE-DPT0210-028.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458				
NAL13041-119	CRHE-DPT0210-028.0-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458	50	110		
NAL13041-119	CRHE-DPT0210-028.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458	50	110		
NAL13041-119	CRHE-DPT0210-028.0-20130322	SUR	2037-26-5	Toluene d8	45		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458	50	90		
NAL13041-119	CRHE-DPT0210-028.0-20130322	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7458	50	92		

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NAL13041-120	CRHE-DPT0210-033.0-20130322	TRG	75-01-4	Vinyl Chloride	130		ug/L	50	6.5	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459				
NAL13041-120	CRHE-DPT0210-033.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459				
NAL13041-120	CRHE-DPT0210-033.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene	60		ug/L	50	14	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459				
NAL13041-120	CRHE-DPT0210-033.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	160		ug/L	50	10	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459				
NAL13041-120	CRHE-DPT0210-033.0-20130322	TRG	79-01-6	Trichloroethene	56		ug/L	50	11	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459				
NAL13041-120	CRHE-DPT0210-033.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459				
NAL13041-120	CRHE-DPT0210-033.0-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459	50	110		
NAL13041-120	CRHE-DPT0210-033.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459	50	110		
NAL13041-120	CRHE-DPT0210-033.0-20130322	SUR	2037-26-5	Toluene d8	45		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459	50	90		
NAL13041-120	CRHE-DPT0210-033.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7459	50	94		

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NAL13041-121	CRHE-DPT0210-038.0-20130322	TRG	75-01-4	Vinyl Chloride	6200		ug/L	50	6.5	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460				
NAL13041-121	CRHE-DPT0210-038.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460				
NAL13041-121	CRHE-DPT0210-038.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene	300		ug/L	50	14	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460				
NAL13041-121	CRHE-DPT0210-038.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	21000	L	ug/L	50	10	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460				
NAL13041-121	CRHE-DPT0210-038.0-20130322	TRG	79-01-6	Trichloroethene	3800		ug/L	50	11	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460				
NAL13041-121	CRHE-DPT0210-038.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460				
NAL13041-121	CRHE-DPT0210-038.0-20130322	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460	50	98		
NAL13041-121	CRHE-DPT0210-038.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460	50	106		
NAL13041-121	CRHE-DPT0210-038.0-20130322	SUR	2037-26-5	Toluene d8	44		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460	50	88		
NAL13041-121	CRHE-DPT0210-038.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7460	50	94		

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NAL13041-122	CRHE-DPT0210-043.0-20130322	TRG	75-01-4	Vinyl Chloride	2100		ug/L	50	6.5	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461				
NAL13041-122	CRHE-DPT0210-043.0-20130322	TRG	75-35-4	1,1-Dichloroethene	58		ug/L	50	9.0	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461				
NAL13041-122	CRHE-DPT0210-043.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene	180		ug/L	50	14	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461				
NAL13041-122	CRHE-DPT0210-043.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	11000	L	ug/L	50	10	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461				
NAL13041-122	CRHE-DPT0210-043.0-20130322	TRG	79-01-6	Trichloroethene	3900		ug/L	50	11	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461				
NAL13041-122	CRHE-DPT0210-043.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461				
NAL13041-122	CRHE-DPT0210-043.0-20130322	SUR	1868-53-7	Dibromofluoromethane	41		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461	50	82		
NAL13041-122	CRHE-DPT0210-043.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461	50	110		
NAL13041-122	CRHE-DPT0210-043.0-20130322	SUR	2037-26-5	Toluene d8	45		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461	50	90		
NAL13041-122	CRHE-DPT0210-043.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7461	50	94		

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NAL13041-124	CRHE-DPT0211-010.0-20130322	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462				
NAL13041-124	CRHE-DPT0211-010.0-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462				
NAL13041-124	CRHE-DPT0211-010.0-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462				
NAL13041-124	CRHE-DPT0211-010.0-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462				
NAL13041-124	CRHE-DPT0211-010.0-20130322	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462				
NAL13041-124	CRHE-DPT0211-010.0-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462				
NAL13041-124	CRHE-DPT0211-010.0-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462	50	110		
NAL13041-124	CRHE-DPT0211-010.0-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462	50	110		
NAL13041-124	CRHE-DPT0211-010.0-20130322	SUR	2037-26-5	Toluene d8	45		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462	50	90		
NAL13041-124	CRHE-DPT0211-010.0-20130322	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7462	50	94		

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NAL13041-125	CRHE-IDW193860-20130322	TRG	75-01-4	Vinyl Chloride	55		ug/L	10	1.3	3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463				
NAL13041-125	CRHE-IDW193860-20130322	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463				
NAL13041-125	CRHE-IDW193860-20130322	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463				
NAL13041-125	CRHE-IDW193860-20130322	TRG	156-59-2	Cis-1,2-Dichloroethene	180		ug/L	10	2.0	3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463				
NAL13041-125	CRHE-IDW193860-20130322	TRG	79-01-6	Trichloroethene	3.9	I	ug/L	10	2.2	3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463				
NAL13041-125	CRHE-IDW193860-20130322	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463				
NAL13041-125	CRHE-IDW193860-20130322	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463	50	110		
NAL13041-125	CRHE-IDW193860-20130322	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463	50	112		
NAL13041-125	CRHE-IDW193860-20130322	SUR	2037-26-5	Toluene d8	45		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463	50	90		
NAL13041-125	CRHE-IDW193860-20130322	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7463	50	96		

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NAL13041-005	CRHE-DPT0196-033.0-20130318	TRG	75-01-4	Vinyl Chloride	310		ug/L	250	33	3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471				
NAL13041-005	CRHE-DPT0196-033.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471				
NAL13041-005	CRHE-DPT0196-033.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471				
NAL13041-005	CRHE-DPT0196-033.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	4300		ug/L	250	50	3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471				
NAL13041-005	CRHE-DPT0196-033.0-20130318	TRG	79-01-6	Trichloroethene	2000		ug/L	250	55	3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471				
NAL13041-005	CRHE-DPT0196-033.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471				
NAL13041-005	CRHE-DPT0196-033.0-20130318	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471	50	94		
NAL13041-005	CRHE-DPT0196-033.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471	50	92		
NAL13041-005	CRHE-DPT0196-033.0-20130318	SUR	2037-26-5	Toluene d8	46		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471	50	92		
NAL13041-005	CRHE-DPT0196-033.0-20130318	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7471	50	94		

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NAL13041-009	CRHE-DPT0197-010.0-20130318	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483				
NAL13041-009	CRHE-DPT0197-010.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483				
NAL13041-009	CRHE-DPT0197-010.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483				
NAL13041-009	CRHE-DPT0197-010.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483				
NAL13041-009	CRHE-DPT0197-010.0-20130318	TRG	79-01-6	Trichloroethene	0.56	I	ug/L	1.0	0.22	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483				
NAL13041-009	CRHE-DPT0197-010.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483				
NAL13041-009	CRHE-DPT0197-010.0-20130318	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483	50	110		
NAL13041-009	CRHE-DPT0197-010.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483	50	110		
NAL13041-009	CRHE-DPT0197-010.0-20130318	SUR	2037-26-5	Toluene d8	45		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483	50	90		
NAL13041-009	CRHE-DPT0197-010.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7483	50	96		

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NAL13041-010	CRHE-DPT0197-018.0-20130318	TRG	75-01-4	Vinyl Chloride	24		ug/L	1.0	0.13	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472				
NAL13041-010	CRHE-DPT0197-018.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472				
NAL13041-010	CRHE-DPT0197-018.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472				
NAL13041-010	CRHE-DPT0197-018.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	65		ug/L	1.0	0.20	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472				
NAL13041-010	CRHE-DPT0197-018.0-20130318	TRG	79-01-6	Trichloroethene	20		ug/L	1.0	0.22	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472				
NAL13041-010	CRHE-DPT0197-018.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472				
NAL13041-010	CRHE-DPT0197-018.0-20130318	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472	50	102		
NAL13041-010	CRHE-DPT0197-018.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472	50	100		
NAL13041-010	CRHE-DPT0197-018.0-20130318	SUR	2037-26-5	Toluene d8	46		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472	50	92		
NAL13041-010	CRHE-DPT0197-018.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7472	50	96		

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NAL13041-025	CRHE-DPT0199-010.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485				
NAL13041-025	CRHE-DPT0199-010.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485				
NAL13041-025	CRHE-DPT0199-010.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485				
NAL13041-025	CRHE-DPT0199-010.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485				
NAL13041-025	CRHE-DPT0199-010.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485				
NAL13041-025	CRHE-DPT0199-010.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485				
NAL13041-025	CRHE-DPT0199-010.0-20130319	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485	50	104		
NAL13041-025	CRHE-DPT0199-010.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485	50	104		
NAL13041-025	CRHE-DPT0199-010.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485	50	92		
NAL13041-025	CRHE-DPT0199-010.0-20130319	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7485	50	92		

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NAL13041-044	CRHE-DPT0201-028.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479				
NAL13041-044	CRHE-DPT0201-028.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479				
NAL13041-044	CRHE-DPT0201-028.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479				
NAL13041-044	CRHE-DPT0201-028.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479				
NAL13041-044	CRHE-DPT0201-028.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479				
NAL13041-044	CRHE-DPT0201-028.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479				
NAL13041-044	CRHE-DPT0201-028.0-20130319	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479	50	106		
NAL13041-044	CRHE-DPT0201-028.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479	50	106		
NAL13041-044	CRHE-DPT0201-028.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479	50	92		
NAL13041-044	CRHE-DPT0201-028.0-20130319	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7479	50	92		

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NAL13041-053	CRHE-DPT0202-028.0-20130320	TRG	75-01-4	Vinyl Chloride	2200		ug/L	100	13	3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480				
NAL13041-053	CRHE-DPT0202-028.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480				
NAL13041-053	CRHE-DPT0202-028.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene	1500		ug/L	100	28	3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480				
NAL13041-053	CRHE-DPT0202-028.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	58000	L	ug/L	100	20	3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480				
NAL13041-053	CRHE-DPT0202-028.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	100	22	3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480				
NAL13041-053	CRHE-DPT0202-028.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480				
NAL13041-053	CRHE-DPT0202-028.0-20130320	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480	50	106		
NAL13041-053	CRHE-DPT0202-028.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480	50	104		
NAL13041-053	CRHE-DPT0202-028.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480	50	92		
NAL13041-053	CRHE-DPT0202-028.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7480	50	96		

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NAL13041-054	CRHE-DPT0202-033.0-20130320	TRG	75-01-4	Vinyl Chloride	1500		ug/L	50	6.5	3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481				
NAL13041-054	CRHE-DPT0202-033.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481				
NAL13041-054	CRHE-DPT0202-033.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene	120		ug/L	50	14	3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481				
NAL13041-054	CRHE-DPT0202-033.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	6500	JL	ug/L	50	10	3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481				
NAL13041-054	CRHE-DPT0202-033.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481				
NAL13041-054	CRHE-DPT0202-033.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481				
NAL13041-054	CRHE-DPT0202-033.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481	50	110		
NAL13041-054	CRHE-DPT0202-033.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481	50	108		
NAL13041-054	CRHE-DPT0202-033.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481	50	92		
NAL13041-054	CRHE-DPT0202-033.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/23/2013	3/23/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7481	50	96		

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P032213CCVA	P032213CCVA	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	98		
P032213CCVA	P032213CCVA	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	96		
P032213CCVA	P032213CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	100		
P032213CCVA	P032213CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	104		
P032213CCVA	P032213CCVA	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	108		
P032213CCVA	P032213CCVA	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	108		
P032213CCVA	P032213CCVA	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	96		
P032213CCVA	P032213CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	90		
P032213CCVA	P032213CCVA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	96		
P032213CCVA	P032213CCVA	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/22/2013	3/22/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7442	50	98		

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P032213MBKA	P032213MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446				
P032213MBKA	P032213MBKA	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	106		
P032213MBKA	P032213MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	104		
P032213MBKA	P032213MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	94		
P032213MBKA	P032213MBKA	SUR	460-00-4	Bromofluorobenzene	46		ug/L			NA	3/22/2013	3/22/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7446	50	92		

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P032213CCVB	P032213CCVB	TRG	75-01-4	Vinyl Chloride	44		ug/L	1.0	0.13	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	88		
P032213CCVB	P032213CCVB	TRG	75-35-4	1,1-Dichloroethene	44		ug/L	1.0	0.18	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	88		
P032213CCVB	P032213CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	90		
P032213CCVB	P032213CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	102		
P032213CCVB	P032213CCVB	TRG	79-01-6	Trichloroethene	57		ug/L	1.0	0.22	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	114		
P032213CCVB	P032213CCVB	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	106		
P032213CCVB	P032213CCVB	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	98		
P032213CCVB	P032213CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	94		
P032213CCVB	P032213CCVB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	96		
P032213CCVB	P032213CCVB	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7464	50	100		

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P032213MBKB	P032213MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469				
P032213MBKB	P032213MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469				
P032213MBKB	P032213MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469				
P032213MBKB	P032213MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469				
P032213MBKB	P032213MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469				
P032213MBKB	P032213MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469				
P032213MBKB	P032213MBKB	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469	50	112		
P032213MBKB	P032213MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469	50	114		
P032213MBKB	P032213MBKB	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469	50	92		
P032213MBKB	P032213MBKB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7469	50	96		

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Project Site: NASA, Kennedy Space Center

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P032213BLCS	P032213BLCS	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	102		
P032213BLCS	P032213BLCS	TRG	75-35-4	1,1-Dichloroethene	54		ug/L	1.0	0.18	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	108		
P032213BLCS	P032213BLCS	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	108		
P032213BLCS	P032213BLCS	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	110		
P032213BLCS	P032213BLCS	TRG	79-01-6	Trichloroethene	56		ug/L	1.0	0.22	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	112		
P032213BLCS	P032213BLCS	TRG	127-18-4	Tetrachloroethene	55		ug/L	1.0	0.16	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	110		
P032213BLCS	P032213BLCS	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	100		
P032213BLCS	P032213BLCS	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	96		
P032213BLCS	P032213BLCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	98		
P032213BLCS	P032213BLCS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7465	50	100		

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P032213BLCD	P032213BLCD	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	98	4	
P032213BLCD	P032213BLCD	TRG	75-35-4	1,1-Dichloroethene	54		ug/L	1.0	0.18	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	108	0	
P032213BLCD	P032213BLCD	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	112	4	
P032213BLCD	P032213BLCD	TRG	156-59-2	Cis-1,2-Dichloroethene	57		ug/L	1.0	0.20	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	114	4	
P032213BLCD	P032213BLCD	TRG	79-01-6	Trichloroethene	59		ug/L	1.0	0.22	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	118	5	
P032213BLCD	P032213BLCD	TRG	127-18-4	Tetrachloroethene	57		ug/L	1.0	0.16	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	114	4	
P032213BLCD	P032213BLCD	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	100	0	
P032213BLCD	P032213BLCD	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	98	2	
P032213BLCD	P032213BLCD	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	98	0	
P032213BLCD	P032213BLCD	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7466	50	100	0	

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NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	102		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	TRG	75-35-4	1,1-Dichloroethene	52		ug/L	1.0	0.18	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	104		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	106		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	108		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	108		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	TRG	127-18-4	Tetrachloroethene	55		ug/L	1.0	0.16	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	110		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	102		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	98		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	SUR	2037-26-5	Toluene d8	50		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	100		
NAL13041-124MS	CRHE-DPT0211-010.0-20130322MS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7467	50	100		

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NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	96	6	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	TRG	75-35-4	1,1-Dichloroethene	52		ug/L	1.0	0.18	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	104	0	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	102	4	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	104	4	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	104	4	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	106	4	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	102	0	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	94	4	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	SUR	2037-26-5	Toluene d8	49		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	98	2	
NAL13041-124MSD	CRHE-DPT0211-010.0-20130322MSD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/22/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7468	50	102	2	

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NAL13041-014	CRHE-DPT0197-038.0-20130318	TRG	75-01-4	Vinyl Chloride	1.1		ug/L	1.0	0.13	3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504				
NAL13041-014	CRHE-DPT0197-038.0-20130318	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504				
NAL13041-014	CRHE-DPT0197-038.0-20130318	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504				
NAL13041-014	CRHE-DPT0197-038.0-20130318	TRG	156-59-2	Cis-1,2-Dichloroethene	0.74	I	ug/L	1.0	0.20	3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504				
NAL13041-014	CRHE-DPT0197-038.0-20130318	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504				
NAL13041-014	CRHE-DPT0197-038.0-20130318	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504				
NAL13041-014	CRHE-DPT0197-038.0-20130318	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504	50	108		
NAL13041-014	CRHE-DPT0197-038.0-20130318	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504	50	110		
NAL13041-014	CRHE-DPT0197-038.0-20130318	SUR	2037-26-5	Toluene d8	45		ug/L			3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504	50	90		
NAL13041-014	CRHE-DPT0197-038.0-20130318	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/18/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7504	50	96		

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NAL13041-026	CRHE-DPT0199-018.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488				
NAL13041-026	CRHE-DPT0199-018.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488				
NAL13041-026	CRHE-DPT0199-018.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488				
NAL13041-026	CRHE-DPT0199-018.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488				
NAL13041-026	CRHE-DPT0199-018.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488				
NAL13041-026	CRHE-DPT0199-018.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488				
NAL13041-026	CRHE-DPT0199-018.0-20130319	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488	50	110		
NAL13041-026	CRHE-DPT0199-018.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488	50	112		
NAL13041-026	CRHE-DPT0199-018.0-20130319	SUR	2037-26-5	Toluene d8	45		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488	50	90		
NAL13041-026	CRHE-DPT0199-018.0-20130319	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7488	50	94		

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NAL13041-027	CRHE-DPT0199-023.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489				
NAL13041-027	CRHE-DPT0199-023.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489				
NAL13041-027	CRHE-DPT0199-023.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489				
NAL13041-027	CRHE-DPT0199-023.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489				
NAL13041-027	CRHE-DPT0199-023.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489				
NAL13041-027	CRHE-DPT0199-023.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489				
NAL13041-027	CRHE-DPT0199-023.0-20130319	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489	50	104		
NAL13041-027	CRHE-DPT0199-023.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489	50	114		
NAL13041-027	CRHE-DPT0199-023.0-20130319	SUR	2037-26-5	Toluene d8	45		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489	50	90		
NAL13041-027	CRHE-DPT0199-023.0-20130319	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7489	50	96		

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NAL13041-033	CRHE-DPT0200-010.0-20130319	TRG	75-01-4	Vinyl Chloride	0.56	I	ug/L	1.0	0.13	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490				
NAL13041-033	CRHE-DPT0200-010.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490				
NAL13041-033	CRHE-DPT0200-010.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490				
NAL13041-033	CRHE-DPT0200-010.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	0.97	I	ug/L	1.0	0.20	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490				
NAL13041-033	CRHE-DPT0200-010.0-20130319	TRG	79-01-6	Trichloroethene	0.40	I	ug/L	1.0	0.22	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490				
NAL13041-033	CRHE-DPT0200-010.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490				
NAL13041-033	CRHE-DPT0200-010.0-20130319	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490	50	92		
NAL13041-033	CRHE-DPT0200-010.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490	50	114		
NAL13041-033	CRHE-DPT0200-010.0-20130319	SUR	2037-26-5	Toluene d8	45		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490	50	90		
NAL13041-033	CRHE-DPT0200-010.0-20130319	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7490	50	94		

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NAL13041-034	CRHE-DPT0200-018.0-20130319	TRG	75-01-4	Vinyl Chloride	4.6	I	ug/L	10	1.3	3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491				
NAL13041-034	CRHE-DPT0200-018.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491				
NAL13041-034	CRHE-DPT0200-018.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene	4.1	I	ug/L	10	2.8	3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491				
NAL13041-034	CRHE-DPT0200-018.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491				
NAL13041-034	CRHE-DPT0200-018.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491				
NAL13041-034	CRHE-DPT0200-018.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491				
NAL13041-034	CRHE-DPT0200-018.0-20130319	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491	50	114		
NAL13041-034	CRHE-DPT0200-018.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491	50	118		
NAL13041-034	CRHE-DPT0200-018.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491	50	92		
NAL13041-034	CRHE-DPT0200-018.0-20130319	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7491	50	96		

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NAL13041-041	CRHE-DPT0201-010.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492				
NAL13041-041	CRHE-DPT0201-010.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492				
NAL13041-041	CRHE-DPT0201-010.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492				
NAL13041-041	CRHE-DPT0201-010.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492				
NAL13041-041	CRHE-DPT0201-010.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492				
NAL13041-041	CRHE-DPT0201-010.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492				
NAL13041-041	CRHE-DPT0201-010.0-20130319	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492	50	112		
NAL13041-041	CRHE-DPT0201-010.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492	50	112		
NAL13041-041	CRHE-DPT0201-010.0-20130319	SUR	2037-26-5	Toluene d8	45		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492	50	90		
NAL13041-041	CRHE-DPT0201-010.0-20130319	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/19/2013	3/23/2013	3/23/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7492	50	96		

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NAL13041-045	CRHE-DPT0201-033.0-20130319	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503				
NAL13041-045	CRHE-DPT0201-033.0-20130319	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503				
NAL13041-045	CRHE-DPT0201-033.0-20130319	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503				
NAL13041-045	CRHE-DPT0201-033.0-20130319	TRG	156-59-2	Cis-1,2-Dichloroethene	0.64	I	ug/L	1.0	0.20	3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503				
NAL13041-045	CRHE-DPT0201-033.0-20130319	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503				
NAL13041-045	CRHE-DPT0201-033.0-20130319	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503				
NAL13041-045	CRHE-DPT0201-033.0-20130319	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503	50	104		
NAL13041-045	CRHE-DPT0201-033.0-20130319	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503	50	104		
NAL13041-045	CRHE-DPT0201-033.0-20130319	SUR	2037-26-5	Toluene d8	46		ug/L			3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503	50	92		
NAL13041-045	CRHE-DPT0201-033.0-20130319	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/19/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7503	50	94		

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NAL13041-050	CRHE-DPT0202-010.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493				
NAL13041-050	CRHE-DPT0202-010.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493				
NAL13041-050	CRHE-DPT0202-010.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493				
NAL13041-050	CRHE-DPT0202-010.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493				
NAL13041-050	CRHE-DPT0202-010.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493				
NAL13041-050	CRHE-DPT0202-010.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493				
NAL13041-050	CRHE-DPT0202-010.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493	50	110		
NAL13041-050	CRHE-DPT0202-010.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493	50	112		
NAL13041-050	CRHE-DPT0202-010.0-20130320	SUR	2037-26-5	Toluene d8	45		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493	50	90		
NAL13041-050	CRHE-DPT0202-010.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7493	50	96		

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NAL13041-051	CRHE-DPT0202-018.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	50	6.5	3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494				
NAL13041-051	CRHE-DPT0202-018.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494				
NAL13041-051	CRHE-DPT0202-018.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494				
NAL13041-051	CRHE-DPT0202-018.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	50	10	3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494				
NAL13041-051	CRHE-DPT0202-018.0-20130320	TRG	79-01-6	Trichloroethene	37	I	ug/L	50	11	3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494				
NAL13041-051	CRHE-DPT0202-018.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494				
NAL13041-051	CRHE-DPT0202-018.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494	50	110		
NAL13041-051	CRHE-DPT0202-018.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494	50	112		
NAL13041-051	CRHE-DPT0202-018.0-20130320	SUR	2037-26-5	Toluene d8	45		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494	50	90		
NAL13041-051	CRHE-DPT0202-018.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7494	50	96		

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NAL13041-057	CRHE-DPT0202-058.0-20130320	TRG	75-01-4	Vinyl Chloride	14		ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495				
NAL13041-057	CRHE-DPT0202-058.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495				
NAL13041-057	CRHE-DPT0202-058.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene	7.2		ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495				
NAL13041-057	CRHE-DPT0202-058.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	330	L	ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495				
NAL13041-057	CRHE-DPT0202-058.0-20130320	TRG	79-01-6	Trichloroethene	10		ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495				
NAL13041-057	CRHE-DPT0202-058.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495				
NAL13041-057	CRHE-DPT0202-058.0-20130320	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495	50	114		
NAL13041-057	CRHE-DPT0202-058.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495	50	114		
NAL13041-057	CRHE-DPT0202-058.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495	50	92		
NAL13041-057	CRHE-DPT0202-058.0-20130320	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7495	50	96		

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NAL13041-058	CRHE-DPT0203-010.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496				
NAL13041-058	CRHE-DPT0203-010.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496				
NAL13041-058	CRHE-DPT0203-010.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496				
NAL13041-058	CRHE-DPT0203-010.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496				
NAL13041-058	CRHE-DPT0203-010.0-20130320	TRG	79-01-6	Trichloroethene	0.81	I	ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496				
NAL13041-058	CRHE-DPT0203-010.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496				
NAL13041-058	CRHE-DPT0203-010.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496	50	110		
NAL13041-058	CRHE-DPT0203-010.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496	50	110		
NAL13041-058	CRHE-DPT0203-010.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496	50	92		
NAL13041-058	CRHE-DPT0203-010.0-20130320	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7496	50	104		

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NAL13041-059	CRHE-DPT0203-018.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497				
NAL13041-059	CRHE-DPT0203-018.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497				
NAL13041-059	CRHE-DPT0203-018.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497				
NAL13041-059	CRHE-DPT0203-018.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497				
NAL13041-059	CRHE-DPT0203-018.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497				
NAL13041-059	CRHE-DPT0203-018.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497				
NAL13041-059	CRHE-DPT0203-018.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497	50	110		
NAL13041-059	CRHE-DPT0203-018.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497	50	112		
NAL13041-059	CRHE-DPT0203-018.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497	50	92		
NAL13041-059	CRHE-DPT0203-018.0-20130320	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7497	50	100		

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NAL13041-060	CRHE-DPT0203-023.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498				
NAL13041-060	CRHE-DPT0203-023.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498				
NAL13041-060	CRHE-DPT0203-023.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498				
NAL13041-060	CRHE-DPT0203-023.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	2.1		ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498				
NAL13041-060	CRHE-DPT0203-023.0-20130320	TRG	79-01-6	Trichloroethene	0.68	I	ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498				
NAL13041-060	CRHE-DPT0203-023.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498				
NAL13041-060	CRHE-DPT0203-023.0-20130320	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498	50	116		
NAL13041-060	CRHE-DPT0203-023.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498	50	120		
NAL13041-060	CRHE-DPT0203-023.0-20130320	SUR	2037-26-5	Toluene d8	45		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498	50	90		
NAL13041-060	CRHE-DPT0203-023.0-20130320	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7498	50	98		

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NAL13041-062	CRHE-DPT0203-033.0-20130320	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505				
NAL13041-062	CRHE-DPT0203-033.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505				
NAL13041-062	CRHE-DPT0203-033.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505				
NAL13041-062	CRHE-DPT0203-033.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	1.3		ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505				
NAL13041-062	CRHE-DPT0203-033.0-20130320	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505				
NAL13041-062	CRHE-DPT0203-033.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505				
NAL13041-062	CRHE-DPT0203-033.0-20130320	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505	50	108		
NAL13041-062	CRHE-DPT0203-033.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505	50	110		
NAL13041-062	CRHE-DPT0203-033.0-20130320	SUR	2037-26-5	Toluene d8	46		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505	50	92		
NAL13041-062	CRHE-DPT0203-033.0-20130320	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7505	50	98		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-065	CRHE-DPT0203-058.0-20130320	TRG	75-01-4	Vinyl Chloride	2.7		ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506				
NAL13041-065	CRHE-DPT0203-058.0-20130320	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506				
NAL13041-065	CRHE-DPT0203-058.0-20130320	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506				
NAL13041-065	CRHE-DPT0203-058.0-20130320	TRG	156-59-2	Cis-1,2-Dichloroethene	21		ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506				
NAL13041-065	CRHE-DPT0203-058.0-20130320	TRG	79-01-6	Trichloroethene	5.5		ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506				
NAL13041-065	CRHE-DPT0203-058.0-20130320	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506				
NAL13041-065	CRHE-DPT0203-058.0-20130320	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506	50	110		
NAL13041-065	CRHE-DPT0203-058.0-20130320	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506	50	112		
NAL13041-065	CRHE-DPT0203-058.0-20130320	SUR	2037-26-5	Toluene d8	45		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506	50	90		
NAL13041-065	CRHE-DPT0203-058.0-20130320	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7506	50	98		

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NAL13041-079	CRHE-DPT0205-038.0-20130321	TRG	75-01-4	Vinyl Chloride	0.55	I	ug/L	1.0	0.13	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508				
NAL13041-079	CRHE-DPT0205-038.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508				
NAL13041-079	CRHE-DPT0205-038.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508				
NAL13041-079	CRHE-DPT0205-038.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508				
NAL13041-079	CRHE-DPT0205-038.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508				
NAL13041-079	CRHE-DPT0205-038.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508				
NAL13041-079	CRHE-DPT0205-038.0-20130321	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508	50	102		
NAL13041-079	CRHE-DPT0205-038.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508	50	102		
NAL13041-079	CRHE-DPT0205-038.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508	50	92		
NAL13041-079	CRHE-DPT0205-038.0-20130321	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7508	50	100		

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NAL13041-087	CRHE-DPT0206-038.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509				
NAL13041-087	CRHE-DPT0206-038.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509				
NAL13041-087	CRHE-DPT0206-038.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509				
NAL13041-087	CRHE-DPT0206-038.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509				
NAL13041-087	CRHE-DPT0206-038.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509				
NAL13041-087	CRHE-DPT0206-038.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509				
NAL13041-087	CRHE-DPT0206-038.0-20130321	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509	50	110		
NAL13041-087	CRHE-DPT0206-038.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509	50	110		
NAL13041-087	CRHE-DPT0206-038.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509	50	92		
NAL13041-087	CRHE-DPT0206-038.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7509	50	96		

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NAL13041-088	CRHE-DPT0206-043.0-20130321	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510				
NAL13041-088	CRHE-DPT0206-043.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510				
NAL13041-088	CRHE-DPT0206-043.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510				
NAL13041-088	CRHE-DPT0206-043.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510				
NAL13041-088	CRHE-DPT0206-043.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510				
NAL13041-088	CRHE-DPT0206-043.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510				
NAL13041-088	CRHE-DPT0206-043.0-20130321	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510	50	112		
NAL13041-088	CRHE-DPT0206-043.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510	50	116		
NAL13041-088	CRHE-DPT0206-043.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510	50	90		
NAL13041-088	CRHE-DPT0206-043.0-20130321	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7510	50	98		

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NAL13041-091	CRHE-DPT0207-018.0-20130321	TRG	75-01-4	Vinyl Chloride	1100		ug/L	250	33	3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507				
NAL13041-091	CRHE-DPT0207-018.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507				
NAL13041-091	CRHE-DPT0207-018.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507				
NAL13041-091	CRHE-DPT0207-018.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene	10000		ug/L	250	50	3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507				
NAL13041-091	CRHE-DPT0207-018.0-20130321	TRG	79-01-6	Trichloroethene	760		ug/L	250	55	3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507				
NAL13041-091	CRHE-DPT0207-018.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507				
NAL13041-091	CRHE-DPT0207-018.0-20130321	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507	50	102		
NAL13041-091	CRHE-DPT0207-018.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507	50	104		
NAL13041-091	CRHE-DPT0207-018.0-20130321	SUR	2037-26-5	Toluene d8	45		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507	50	90		
NAL13041-091	CRHE-DPT0207-018.0-20130321	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7507	50	94		

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NAL13041-101	CRHE-DPT0208-023.0-20130321	TRG	75-01-4	Vinyl Chloride	2400		ug/L	50	6.5	3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511				
NAL13041-101	CRHE-DPT0208-023.0-20130321	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511				
NAL13041-101	CRHE-DPT0208-023.0-20130321	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511				
NAL13041-101	CRHE-DPT0208-023.0-20130321	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	50	10	3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511				
NAL13041-101	CRHE-DPT0208-023.0-20130321	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511				
NAL13041-101	CRHE-DPT0208-023.0-20130321	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511				
NAL13041-101	CRHE-DPT0208-023.0-20130321	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511	50	114		
NAL13041-101	CRHE-DPT0208-023.0-20130321	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511	50	116		
NAL13041-101	CRHE-DPT0208-023.0-20130321	SUR	2037-26-5	Toluene d8	46		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511	50	92		
NAL13041-101	CRHE-DPT0208-023.0-20130321	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/21/2013	3/24/2013	3/24/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7511	50	96		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P032313CCVA	P032313CCVA	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	92		
P032313CCVA	P032313CCVA	TRG	75-35-4	1,1-Dichloroethene	53		ug/L	1.0	0.18	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	106		
P032313CCVA	P032313CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	106		
P032313CCVA	P032313CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	108		
P032313CCVA	P032313CCVA	TRG	79-01-6	Trichloroethene	55		ug/L	1.0	0.22	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	110		
P032313CCVA	P032313CCVA	TRG	127-18-4	Tetrachloroethene	56		ug/L	1.0	0.16	NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	112		
P032313CCVA	P032313CCVA	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	96		
P032313CCVA	P032313CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	92		
P032313CCVA	P032313CCVA	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	98		
P032313CCVA	P032313CCVA	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/23/2013	3/23/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7475	50	100		

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P032313MBKA	P032313MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477				
P032313MBKA	P032313MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477				
P032313MBKA	P032313MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477				
P032313MBKA	P032313MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477				
P032313MBKA	P032313MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477				
P032313MBKA	P032313MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477				
P032313MBKA	P032313MBKA	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477	50	106		
P032313MBKA	P032313MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477	50	106		
P032313MBKA	P032313MBKA	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477	50	92		
P032313MBKA	P032313MBKA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/23/2013	3/23/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7477	50	94		

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P032413CCVA	P032413CCVA	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	94		
P032413CCVA	P032413CCVA	TRG	75-35-4	1,1-Dichloroethene	54		ug/L	1.0	0.18	NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	108		
P032413CCVA	P032413CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	108		
P032413CCVA	P032413CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	108		
P032413CCVA	P032413CCVA	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	106		
P032413CCVA	P032413CCVA	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	106		
P032413CCVA	P032413CCVA	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	98		
P032413CCVA	P032413CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	100		
P032413CCVA	P032413CCVA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	96		
P032413CCVA	P032413CCVA	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/24/2013	3/24/2013	WQ	1	NA	5.0	NA	SW8260B	NALP7501	50	104		

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P032413MBKA	P032413MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502				
P032413MBKA	P032413MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502				
P032413MBKA	P032413MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502				
P032413MBKA	P032413MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502				
P032413MBKA	P032413MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502				
P032413MBKA	P032413MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502				
P032413MBKA	P032413MBKA	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502	50	106		
P032413MBKA	P032413MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502	50	110		
P032413MBKA	P032413MBKA	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502	50	92		
P032413MBKA	P032413MBKA	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7502	50	98		

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P032313ALCS	P032313ALCS	TRG	75-01-4	Vinyl Chloride	56		ug/L	1.0	0.13	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	112		
P032313ALCS	P032313ALCS	TRG	75-35-4	1,1-Dichloroethene	73		ug/L	1.0	0.18	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	146		
P032313ALCS	P032313ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	65		ug/L	1.0	0.28	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	130		
P032313ALCS	P032313ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	64		ug/L	1.0	0.20	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	128		
P032313ALCS	P032313ALCS	TRG	79-01-6	Trichloroethene	65		ug/L	1.0	0.22	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	130		
P032313ALCS	P032313ALCS	TRG	127-18-4	Tetrachloroethene	60		ug/L	1.0	0.16	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	120		
P032313ALCS	P032313ALCS	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	104		
P032313ALCS	P032313ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	108		
P032313ALCS	P032313ALCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	98		
P032313ALCS	P032313ALCS	SUR	460-00-4	Bromofluorobenzene	54		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7515	50	108		

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P032313ALCD	P032313ALCD	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	102	9	
P032313ALCD	P032313ALCD	TRG	75-35-4	1,1-Dichloroethene	66		ug/L	1.0	0.18	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	132	10	
P032313ALCD	P032313ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	58		ug/L	1.0	0.28	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	116	11	
P032313ALCD	P032313ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	58		ug/L	1.0	0.20	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	116	10	
P032313ALCD	P032313ALCD	TRG	79-01-6	Trichloroethene	62		ug/L	1.0	0.22	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	124	5	
P032313ALCD	P032313ALCD	TRG	127-18-4	Tetrachloroethene	57		ug/L	1.0	0.16	NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	114	5	
P032313ALCD	P032313ALCD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	102	2	
P032313ALCD	P032313ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	102	6	
P032313ALCD	P032313ALCD	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	98	0	
P032313ALCD	P032313ALCD	SUR	460-00-4	Bromofluorobenzene	55		ug/L			NA	3/24/2013	3/24/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7516	50	110	2	

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	75-01-4	Vinyl Chloride	43		ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	81		2.7
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	75-35-4	1,1-Dichloroethene	56		ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	112		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	106		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	156-59-2	Cis-1,2-Dichloroethene	83		ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	124		21
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	79-01-6	Trichloroethene	61		ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	111		5.5
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	TRG	127-18-4	Tetrachloroethene	46		ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	92		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	116		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	17060-07-0	1,2-Dichloroethane d4	68		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	136		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	2037-26-5	Toluene d8	45		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	90		
NAL13041-065MS	CRHE-DPT0203-058.0-20130320MS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7513	50	102		

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NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	99	19	2.7
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	75-35-4	1,1-Dichloroethene	63		ug/L	1.0	0.18	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	126	12	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	112	6	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	74		ug/L	1.0	0.20	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	106	11	21
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	79-01-6	Trichloroethene	61		ug/L	1.0	0.22	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	111	0	5.5
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	108	16	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	102	13	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	104	27	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	2037-26-5	Toluene d8	49		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	98	9	
NAL13041-065MSD	CRHE-DPT0203-058.0-20130320MSD	SUR	460-00-4	Bromofluorobenzene	53		ug/L			3/20/2013	3/24/2013	3/24/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7514	50	106	4	

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NAL13041-126	CRHE-DPT0211-018.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529				
NAL13041-126	CRHE-DPT0211-018.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529				
NAL13041-126	CRHE-DPT0211-018.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529				
NAL13041-126	CRHE-DPT0211-018.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529				
NAL13041-126	CRHE-DPT0211-018.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529				
NAL13041-126	CRHE-DPT0211-018.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529				
NAL13041-126	CRHE-DPT0211-018.0-20130325	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529	50	106		
NAL13041-126	CRHE-DPT0211-018.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529	50	110		
NAL13041-126	CRHE-DPT0211-018.0-20130325	SUR	2037-26-5	Toluene d8	50		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529	50	100		
NAL13041-126	CRHE-DPT0211-018.0-20130325	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7529	50	92		

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NAL13041-127	CRHE-DPT0211-023.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528				
NAL13041-127	CRHE-DPT0211-023.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528				
NAL13041-127	CRHE-DPT0211-023.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528				
NAL13041-127	CRHE-DPT0211-023.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528				
NAL13041-127	CRHE-DPT0211-023.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528				
NAL13041-127	CRHE-DPT0211-023.0-20130325	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528	50	114		
NAL13041-127	CRHE-DPT0211-023.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528	50	112		
NAL13041-127	CRHE-DPT0211-023.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528	50	94		
NAL13041-127	CRHE-DPT0211-023.0-20130325	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7528	50	92		

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NAL13041-128	CRHE-DPT0211-028.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527				
NAL13041-128	CRHE-DPT0211-028.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527				
NAL13041-128	CRHE-DPT0211-028.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527				
NAL13041-128	CRHE-DPT0211-028.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527				
NAL13041-128	CRHE-DPT0211-028.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527				
NAL13041-128	CRHE-DPT0211-028.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527				
NAL13041-128	CRHE-DPT0211-028.0-20130325	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527	50	108		
NAL13041-128	CRHE-DPT0211-028.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527	50	108		
NAL13041-128	CRHE-DPT0211-028.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527	50	94		
NAL13041-128	CRHE-DPT0211-028.0-20130325	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7527	50	98		

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NAL13041-129	CRHE-DPT0211-033.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530				
NAL13041-129	CRHE-DPT0211-033.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530				
NAL13041-129	CRHE-DPT0211-033.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530				
NAL13041-129	CRHE-DPT0211-033.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530				
NAL13041-129	CRHE-DPT0211-033.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530				
NAL13041-129	CRHE-DPT0211-033.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530				
NAL13041-129	CRHE-DPT0211-033.0-20130325	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530	50	102		
NAL13041-129	CRHE-DPT0211-033.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530	50	98		
NAL13041-129	CRHE-DPT0211-033.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530	50	96		
NAL13041-129	CRHE-DPT0211-033.0-20130325	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7530	50	92		

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Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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NAL13041-130	CRHE-DPT0211-038.0-20130325	TRG	75-01-4	Vinyl Chloride	2000		ug/L	500	65	3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525				
NAL13041-130	CRHE-DPT0211-038.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	500	90	3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525				
NAL13041-130	CRHE-DPT0211-038.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	500	140	3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525				
NAL13041-130	CRHE-DPT0211-038.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	3800		ug/L	500	100	3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525				
NAL13041-130	CRHE-DPT0211-038.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	500	110	3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525				
NAL13041-130	CRHE-DPT0211-038.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	500	80	3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525				
NAL13041-130	CRHE-DPT0211-038.0-20130325	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525	50	108		
NAL13041-130	CRHE-DPT0211-038.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525	50	108		
NAL13041-130	CRHE-DPT0211-038.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525	50	92		
NAL13041-130	CRHE-DPT0211-038.0-20130325	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	500	5.0	5.0	NA	SW8260B	NALP7525	50	100		

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NAL13041-131	CRHE-DPT0211-043.0-20130325	TRG	75-01-4	Vinyl Chloride	2200		ug/L	250	33	3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524				
NAL13041-131	CRHE-DPT0211-043.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524				
NAL13041-131	CRHE-DPT0211-043.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524				
NAL13041-131	CRHE-DPT0211-043.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	6900		ug/L	250	50	3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524				
NAL13041-131	CRHE-DPT0211-043.0-20130325	TRG	79-01-6	Trichloroethene	1100		ug/L	250	55	3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524				
NAL13041-131	CRHE-DPT0211-043.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524				
NAL13041-131	CRHE-DPT0211-043.0-20130325	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524	50	110		
NAL13041-131	CRHE-DPT0211-043.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524	50	110		
NAL13041-131	CRHE-DPT0211-043.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524	50	92		
NAL13041-131	CRHE-DPT0211-043.0-20130325	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7524	50	94		

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NAL13041-132	CRHE-DPT0211-058.0-20130325	TRG	75-01-4	Vinyl Chloride	6.4		ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523				
NAL13041-132	CRHE-DPT0211-058.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523				
NAL13041-132	CRHE-DPT0211-058.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523				
NAL13041-132	CRHE-DPT0211-058.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	38		ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523				
NAL13041-132	CRHE-DPT0211-058.0-20130325	TRG	79-01-6	Trichloroethene	5.5		ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523				
NAL13041-132	CRHE-DPT0211-058.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523				
NAL13041-132	CRHE-DPT0211-058.0-20130325	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523	50	104		
NAL13041-132	CRHE-DPT0211-058.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523	50	104		
NAL13041-132	CRHE-DPT0211-058.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523	50	92		
NAL13041-132	CRHE-DPT0211-058.0-20130325	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7523	50	94		

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NAL13041-133	CRHE-DPT0212-010.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533				
NAL13041-133	CRHE-DPT0212-010.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533				
NAL13041-133	CRHE-DPT0212-010.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533				
NAL13041-133	CRHE-DPT0212-010.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533				
NAL13041-133	CRHE-DPT0212-010.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533				
NAL13041-133	CRHE-DPT0212-010.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533				
NAL13041-133	CRHE-DPT0212-010.0-20130325	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533	50	98		
NAL13041-133	CRHE-DPT0212-010.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533	50	90		
NAL13041-133	CRHE-DPT0212-010.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533	50	96		
NAL13041-133	CRHE-DPT0212-010.0-20130325	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7533	50	92		

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NAL13041-134	CRHE-DPT0212-018.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534				
NAL13041-134	CRHE-DPT0212-018.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534				
NAL13041-134	CRHE-DPT0212-018.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534				
NAL13041-134	CRHE-DPT0212-018.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534				
NAL13041-134	CRHE-DPT0212-018.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534				
NAL13041-134	CRHE-DPT0212-018.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534				
NAL13041-134	CRHE-DPT0212-018.0-20130325	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534	50	108		
NAL13041-134	CRHE-DPT0212-018.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534	50	110		
NAL13041-134	CRHE-DPT0212-018.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534	50	94		
NAL13041-134	CRHE-DPT0212-018.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7534	50	96		

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NAL13041-135	CRHE-DPT0212-023.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535				
NAL13041-135	CRHE-DPT0212-023.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535				
NAL13041-135	CRHE-DPT0212-023.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535				
NAL13041-135	CRHE-DPT0212-023.0-20130325	TRG	79-01-6	Trichloroethene	0.91	I	ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535				
NAL13041-135	CRHE-DPT0212-023.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535				
NAL13041-135	CRHE-DPT0212-023.0-20130325	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535	50	110		
NAL13041-135	CRHE-DPT0212-023.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535	50	108		
NAL13041-135	CRHE-DPT0212-023.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535	50	96		
NAL13041-135	CRHE-DPT0212-023.0-20130325	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7535	50	92		

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NAL13041-136	CRHE-DPT0212-028.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-136	CRHE-DPT0212-028.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-136	CRHE-DPT0212-028.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-136	CRHE-DPT0212-028.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-136	CRHE-DPT0212-028.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-136	CRHE-DPT0212-028.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-136	CRHE-DPT0212-028.0-20130325	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	106		
NAL13041-136	CRHE-DPT0212-028.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	116		
NAL13041-136	CRHE-DPT0212-028.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	92		
NAL13041-136	CRHE-DPT0212-028.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	96		

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NAL13041-137	CRHE-DPT0212-033.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556				
NAL13041-137	CRHE-DPT0212-033.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556				
NAL13041-137	CRHE-DPT0212-033.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556				
NAL13041-137	CRHE-DPT0212-033.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556				
NAL13041-137	CRHE-DPT0212-033.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556				
NAL13041-137	CRHE-DPT0212-033.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556				
NAL13041-137	CRHE-DPT0212-033.0-20130325	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556	50	96		
NAL13041-137	CRHE-DPT0212-033.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556	50	116		
NAL13041-137	CRHE-DPT0212-033.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556	50	92		
NAL13041-137	CRHE-DPT0212-033.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7556	50	96		

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NAL13041-140	CRHE-DPT0212-058.0-20130325	TRG	75-01-4	Vinyl Chloride	0.84	I	ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531				
NAL13041-140	CRHE-DPT0212-058.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531				
NAL13041-140	CRHE-DPT0212-058.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531				
NAL13041-140	CRHE-DPT0212-058.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	6.9		ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531				
NAL13041-140	CRHE-DPT0212-058.0-20130325	TRG	79-01-6	Trichloroethene	2.8		ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531				
NAL13041-140	CRHE-DPT0212-058.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531				
NAL13041-140	CRHE-DPT0212-058.0-20130325	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531	50	96		
NAL13041-140	CRHE-DPT0212-058.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531	50	96		
NAL13041-140	CRHE-DPT0212-058.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531	50	94		
NAL13041-140	CRHE-DPT0212-058.0-20130325	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7531	50	92		

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NAL13041-141	CRHE-DPT0213-010.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559				
NAL13041-141	CRHE-DPT0213-010.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559				
NAL13041-141	CRHE-DPT0213-010.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559				
NAL13041-141	CRHE-DPT0213-010.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559				
NAL13041-141	CRHE-DPT0213-010.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559				
NAL13041-141	CRHE-DPT0213-010.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559				
NAL13041-141	CRHE-DPT0213-010.0-20130325	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559	50	118		
NAL13041-141	CRHE-DPT0213-010.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559	50	120		
NAL13041-141	CRHE-DPT0213-010.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559	50	94		
NAL13041-141	CRHE-DPT0213-010.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7559	50	96		

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NAL13041-142	CRHE-DPT0213-018.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560				
NAL13041-142	CRHE-DPT0213-018.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560				
NAL13041-142	CRHE-DPT0213-018.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560				
NAL13041-142	CRHE-DPT0213-018.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560				
NAL13041-142	CRHE-DPT0213-018.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560				
NAL13041-142	CRHE-DPT0213-018.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560				
NAL13041-142	CRHE-DPT0213-018.0-20130325	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560	50	116		
NAL13041-142	CRHE-DPT0213-018.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560	50	116		
NAL13041-142	CRHE-DPT0213-018.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560	50	94		
NAL13041-142	CRHE-DPT0213-018.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7560	50	96		

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NAL13041-143	CRHE-DPT0213-023.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561				
NAL13041-143	CRHE-DPT0213-023.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561				
NAL13041-143	CRHE-DPT0213-023.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561				
NAL13041-143	CRHE-DPT0213-023.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	0.78	I	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561				
NAL13041-143	CRHE-DPT0213-023.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561				
NAL13041-143	CRHE-DPT0213-023.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561				
NAL13041-143	CRHE-DPT0213-023.0-20130325	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561	50	116		
NAL13041-143	CRHE-DPT0213-023.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561	50	120		
NAL13041-143	CRHE-DPT0213-023.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561	50	92		
NAL13041-143	CRHE-DPT0213-023.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7561	50	96		

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NAL13041-148	CRHE-DPT0213-058.0-20130325	TRG	75-01-4	Vinyl Chloride	20		ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532				
NAL13041-148	CRHE-DPT0213-058.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532				
NAL13041-148	CRHE-DPT0213-058.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene	2.2		ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532				
NAL13041-148	CRHE-DPT0213-058.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	150		ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532				
NAL13041-148	CRHE-DPT0213-058.0-20130325	TRG	79-01-6	Trichloroethene	27		ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532				
NAL13041-148	CRHE-DPT0213-058.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532				
NAL13041-148	CRHE-DPT0213-058.0-20130325	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532	50	108		
NAL13041-148	CRHE-DPT0213-058.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532	50	108		
NAL13041-148	CRHE-DPT0213-058.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532	50	96		
NAL13041-148	CRHE-DPT0213-058.0-20130325	SUR	460-00-4	Bromofluorobenzene	45		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7532	50	90		

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NAL13041-156	CRHE-DPT0214-058.0-20130326	TRG	75-01-4	Vinyl Chloride	9.2		ug/L	1.0	0.13	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536				
NAL13041-156	CRHE-DPT0214-058.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536				
NAL13041-156	CRHE-DPT0214-058.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536				
NAL13041-156	CRHE-DPT0214-058.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	70		ug/L	1.0	0.20	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536				
NAL13041-156	CRHE-DPT0214-058.0-20130326	TRG	79-01-6	Trichloroethene	10		ug/L	1.0	0.22	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536				
NAL13041-156	CRHE-DPT0214-058.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536				
NAL13041-156	CRHE-DPT0214-058.0-20130326	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536	50	112		
NAL13041-156	CRHE-DPT0214-058.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536	50	112		
NAL13041-156	CRHE-DPT0214-058.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536	50	94		
NAL13041-156	CRHE-DPT0214-058.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/25/2013	3/25/2013	3/25/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7536	50	92		

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P032513CCVB	P032513CCVB	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	118		
P032513CCVB	P032513CCVB	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	98		
P032513CCVB	P032513CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	1.0	0.28	NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	110		
P032513CCVB	P032513CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	110		
P032513CCVB	P032513CCVB	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	108		
P032513CCVB	P032513CCVB	TRG	127-18-4	Tetrachloroethene	56		ug/L	1.0	0.16	NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	112		
P032513CCVB	P032513CCVB	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	98		
P032513CCVB	P032513CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	98		
P032513CCVB	P032513CCVB	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	102		
P032513CCVB	P032513CCVB	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/22/2013	3/25/2013	WQ	1	-	5.0	NA	SW8260B	NALP7520	50	102		

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P032513MBKA	P032513MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522				
P032513MBKA	P032513MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522				
P032513MBKA	P032513MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522				
P032513MBKA	P032513MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522				
P032513MBKA	P032513MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522				
P032513MBKA	P032513MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522				
P032513MBKA	P032513MBKA	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522	50	108		
P032513MBKA	P032513MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522	50	108		
P032513MBKA	P032513MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522	50	94		
P032513MBKA	P032513MBKA	SUR	460-00-4	Bromofluorobenzene	46		ug/L			NA	3/22/2013	3/25/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7522	50	92		

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P032513CCVA	P032513CCVA	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	94		
P032513CCVA	P032513CCVA	TRG	75-35-4	1,1-Dichloroethene	51		ug/L	1.0	0.18	NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	102		
P032513CCVA	P032513CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	106		
P032513CCVA	P032513CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	106		
P032513CCVA	P032513CCVA	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	104		
P032513CCVA	P032513CCVA	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	102		
P032513CCVA	P032513CCVA	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	104		
P032513CCVA	P032513CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	98		
P032513CCVA	P032513CCVA	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	102		
P032513CCVA	P032513CCVA	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/22/2013	3/26/2013	WQ	1	-	5.0	NA	SW8260B	NALP7549	50	104		

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P032513MBKC	P032513MBKC	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554				
P032513MBKC	P032513MBKC	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554				
P032513MBKC	P032513MBKC	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554				
P032513MBKC	P032513MBKC	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554				
P032513MBKC	P032513MBKC	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554				
P032513MBKC	P032513MBKC	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554				
P032513MBKC	P032513MBKC	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554	50	116		
P032513MBKC	P032513MBKC	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554	50	122		
P032513MBKC	P032513MBKC	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554	50	94		
P032513MBKC	P032513MBKC	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7554	50	96		

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P032513ALCS	P032513ALCS	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	94		
P032513ALCS	P032513ALCS	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	96		
P032513ALCS	P032513ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	1.0	0.28	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	100		
P032513ALCS	P032513ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	104		
P032513ALCS	P032513ALCS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	102		
P032513ALCS	P032513ALCS	TRG	127-18-4	Tetrachloroethene	48		ug/L	1.0	0.16	NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	96		
P032513ALCS	P032513ALCS	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	102		
P032513ALCS	P032513ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	104		
P032513ALCS	P032513ALCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	102		
P032513ALCS	P032513ALCS	SUR	460-00-4	Bromofluorobenzene	53		ug/L			NA	3/22/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7550	50	106		

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NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	TRG	75-01-4	Vinyl Chloride	45		ug/L	1.0	0.13	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	90		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	84		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	TRG	156-60-5	Trans-1,2-Dichloroethene	43		ug/L	1.0	0.28	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	86		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	TRG	156-59-2	Cis-1,2-Dichloroethene	44		ug/L	1.0	0.20	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	88		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	100		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	102		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	94		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	90		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	102		
NAL13041-126MS	CRHE-DPT0211-018.0-20130325MS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7551	50	104		

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NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	102	13	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	100	17	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	104	19	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	108	20	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	94	6	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	94	8	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	94	0	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	90	0	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	SUR	2037-26-5	Toluene d8	51		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	102	0	
NAL13041-126MSD	CRHE-DPT0211-018.0-20130325MSD	SUR	460-00-4	Bromofluorobenzene	53		ug/L			3/25/2013	3/22/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7552	50	106	2	

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NAL13041-138RR	CRHE-DPT0212-038.0-20130325	TRG	75-01-4	Vinyl Chloride	58		ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566				
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566				
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene	0.90	I	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566				
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566				
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566				
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566				
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566	50	108		
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566	50	104		
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566	50	94		
NAL13041-138RR	CRHE-DPT0212-038.0-20130325	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7566	50	94		

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NAL13041-139RR	CRHE-DPT0212-043.0-20130325	TRG	75-01-4	Vinyl Chloride	8.9		ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567				
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567				
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567				
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567				
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567				
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567				
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567	50	108		
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567	50	110		
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	SUR	2037-26-5	Toluene d8	46		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567	50	92		
NAL13041-139RR	CRHE-DPT0212-043.0-20130325	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7567	50	100		

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NAL13041-144	CRHE-DPT0213-028.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562				
NAL13041-144	CRHE-DPT0213-028.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562				
NAL13041-144	CRHE-DPT0213-028.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562				
NAL13041-144	CRHE-DPT0213-028.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	1.0		ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562				
NAL13041-144	CRHE-DPT0213-028.0-20130325	TRG	79-01-6	Trichloroethene	0.85	I	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562				
NAL13041-144	CRHE-DPT0213-028.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562				
NAL13041-144	CRHE-DPT0213-028.0-20130325	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562	50	114		
NAL13041-144	CRHE-DPT0213-028.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562	50	118		
NAL13041-144	CRHE-DPT0213-028.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562	50	94		
NAL13041-144	CRHE-DPT0213-028.0-20130325	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7562	50	98		

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NAL13041-145	CRHE-DPT0213-033.0-20130325	TRG	75-01-4	Vinyl Chloride	210		ug/L	5.0	0.65	3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563				
NAL13041-145	CRHE-DPT0213-033.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	5.0	0.90	3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563				
NAL13041-145	CRHE-DPT0213-033.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene	140		ug/L	5.0	1.4	3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563				
NAL13041-145	CRHE-DPT0213-033.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	340		ug/L	5.0	1.0	3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563				
NAL13041-145	CRHE-DPT0213-033.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	5.0	1.1	3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563				
NAL13041-145	CRHE-DPT0213-033.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	5.0	0.80	3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563				
NAL13041-145	CRHE-DPT0213-033.0-20130325	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563	50	114		
NAL13041-145	CRHE-DPT0213-033.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563	50	112		
NAL13041-145	CRHE-DPT0213-033.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563	50	94		
NAL13041-145	CRHE-DPT0213-033.0-20130325	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	5	5.0	5.0	NA	SW8260B	NALP7563	50	94		

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NAL13041-146	CRHE-DPT0213-038.0-20130325	TRG	75-01-4	Vinyl Chloride	9900		ug/L	1000	130	3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564				
NAL13041-146	CRHE-DPT0213-038.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1000	180	3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564				
NAL13041-146	CRHE-DPT0213-038.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1000	280	3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564				
NAL13041-146	CRHE-DPT0213-038.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	30000		ug/L	1000	200	3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564				
NAL13041-146	CRHE-DPT0213-038.0-20130325	TRG	79-01-6	Trichloroethene	9700		ug/L	1000	220	3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564				
NAL13041-146	CRHE-DPT0213-038.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1000	160	3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564				
NAL13041-146	CRHE-DPT0213-038.0-20130325	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564	50	112		
NAL13041-146	CRHE-DPT0213-038.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564	50	118		
NAL13041-146	CRHE-DPT0213-038.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564	50	94		
NAL13041-146	CRHE-DPT0213-038.0-20130325	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7564	50	98		

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NAL13041-147	CRHE-DPT0213-043.0-20130325	TRG	75-01-4	Vinyl Chloride	2500		ug/L	250	33	3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565				
NAL13041-147	CRHE-DPT0213-043.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565				
NAL13041-147	CRHE-DPT0213-043.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565				
NAL13041-147	CRHE-DPT0213-043.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	7300		ug/L	250	50	3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565				
NAL13041-147	CRHE-DPT0213-043.0-20130325	TRG	79-01-6	Trichloroethene	330		ug/L	250	55	3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565				
NAL13041-147	CRHE-DPT0213-043.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565				
NAL13041-147	CRHE-DPT0213-043.0-20130325	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565	50	114		
NAL13041-147	CRHE-DPT0213-043.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565	50	120		
NAL13041-147	CRHE-DPT0213-043.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565	50	96		
NAL13041-147	CRHE-DPT0213-043.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7565	50	96		

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NAL13041-149	CRHE-DPT0214-010.0-20130325	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568				
NAL13041-149	CRHE-DPT0214-010.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568				
NAL13041-149	CRHE-DPT0214-010.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568				
NAL13041-149	CRHE-DPT0214-010.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568				
NAL13041-149	CRHE-DPT0214-010.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568				
NAL13041-149	CRHE-DPT0214-010.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568				
NAL13041-149	CRHE-DPT0214-010.0-20130325	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568	50	116		
NAL13041-149	CRHE-DPT0214-010.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568	50	112		
NAL13041-149	CRHE-DPT0214-010.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568	50	96		
NAL13041-149	CRHE-DPT0214-010.0-20130325	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7568	50	94		

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NAL13041-150	CRHE-DPT0214-018.0-20130325	TRG	75-01-4	Vinyl Chloride	36		ug/L	1.0	0.13	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569				
NAL13041-150	CRHE-DPT0214-018.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569				
NAL13041-150	CRHE-DPT0214-018.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569				
NAL13041-150	CRHE-DPT0214-018.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569				
NAL13041-150	CRHE-DPT0214-018.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569				
NAL13041-150	CRHE-DPT0214-018.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569				
NAL13041-150	CRHE-DPT0214-018.0-20130325	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569	50	110		
NAL13041-150	CRHE-DPT0214-018.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569	50	114		
NAL13041-150	CRHE-DPT0214-018.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569	50	94		
NAL13041-150	CRHE-DPT0214-018.0-20130325	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7569	50	98		

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NAL13041-151	CRHE-DPT0214-023.0-20130325	TRG	75-01-4	Vinyl Chloride	6400		ug/L	50	6.5	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570				
NAL13041-151	CRHE-DPT0214-023.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570				
NAL13041-151	CRHE-DPT0214-023.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570				
NAL13041-151	CRHE-DPT0214-023.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	4500		ug/L	50	10	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570				
NAL13041-151	CRHE-DPT0214-023.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570				
NAL13041-151	CRHE-DPT0214-023.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570				
NAL13041-151	CRHE-DPT0214-023.0-20130325	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570	50	106		
NAL13041-151	CRHE-DPT0214-023.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570	50	108		
NAL13041-151	CRHE-DPT0214-023.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570	50	96		
NAL13041-151	CRHE-DPT0214-023.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7570	50	96		

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NAL13041-152	CRHE-DPT0214-028.0-20130325	TRG	75-01-4	Vinyl Chloride	1900		ug/L	50	6.5	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579				
NAL13041-152	CRHE-DPT0214-028.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579				
NAL13041-152	CRHE-DPT0214-028.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579				
NAL13041-152	CRHE-DPT0214-028.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	230		ug/L	50	10	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579				
NAL13041-152	CRHE-DPT0214-028.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579				
NAL13041-152	CRHE-DPT0214-028.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579				
NAL13041-152	CRHE-DPT0214-028.0-20130325	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579	50	104		
NAL13041-152	CRHE-DPT0214-028.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579	50	106		
NAL13041-152	CRHE-DPT0214-028.0-20130325	SUR	2037-26-5	Toluene d8	47		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579	50	94		
NAL13041-152	CRHE-DPT0214-028.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7579	50	96		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-153	CRHE-DPT0214-033.0-20130325	TRG	75-01-4	Vinyl Chloride	3.8		ug/L	2.0	0.26	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574				
NAL13041-153	CRHE-DPT0214-033.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574				
NAL13041-153	CRHE-DPT0214-033.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574				
NAL13041-153	CRHE-DPT0214-033.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	2.8		ug/L	2.0	0.40	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574				
NAL13041-153	CRHE-DPT0214-033.0-20130325	TRG	79-01-6	Trichloroethene	1.9	I	ug/L	2.0	0.44	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574				
NAL13041-153	CRHE-DPT0214-033.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574				
NAL13041-153	CRHE-DPT0214-033.0-20130325	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574	50	104		
NAL13041-153	CRHE-DPT0214-033.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574	50	102		
NAL13041-153	CRHE-DPT0214-033.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574	50	96		
NAL13041-153	CRHE-DPT0214-033.0-20130325	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7574	50	98		

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NAL13041-154	CRHE-DPT0214-038.0-20130325	TRG	75-01-4	Vinyl Chloride	6.7		ug/L	2.0	0.26	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575				
NAL13041-154	CRHE-DPT0214-038.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575				
NAL13041-154	CRHE-DPT0214-038.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	2.0	0.56	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575				
NAL13041-154	CRHE-DPT0214-038.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	6.5		ug/L	2.0	0.40	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575				
NAL13041-154	CRHE-DPT0214-038.0-20130325	TRG	79-01-6	Trichloroethene	3.0		ug/L	2.0	0.44	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575				
NAL13041-154	CRHE-DPT0214-038.0-20130325	TRG	127-18-4	Tetrachloroethene	1.8	I	ug/L	2.0	0.32	3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575				
NAL13041-154	CRHE-DPT0214-038.0-20130325	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575	50	114		
NAL13041-154	CRHE-DPT0214-038.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575	50	114		
NAL13041-154	CRHE-DPT0214-038.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575	50	96		
NAL13041-154	CRHE-DPT0214-038.0-20130325	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/25/2013	3/26/2013	3/26/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7575	50	96		

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NAL13041-158	CRHE-DPT0215-010.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582				
NAL13041-158	CRHE-DPT0215-010.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582				
NAL13041-158	CRHE-DPT0215-010.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582				
NAL13041-158	CRHE-DPT0215-010.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582				
NAL13041-158	CRHE-DPT0215-010.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582				
NAL13041-158	CRHE-DPT0215-010.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582				
NAL13041-158	CRHE-DPT0215-010.0-20130326	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582	50	102		
NAL13041-158	CRHE-DPT0215-010.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582	50	100		
NAL13041-158	CRHE-DPT0215-010.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582	50	94		
NAL13041-158	CRHE-DPT0215-010.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7582	50	92		

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NAL13041-159	CRHE-DPT0215-018.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583				
NAL13041-159	CRHE-DPT0215-018.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583				
NAL13041-159	CRHE-DPT0215-018.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583				
NAL13041-159	CRHE-DPT0215-018.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583				
NAL13041-159	CRHE-DPT0215-018.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583				
NAL13041-159	CRHE-DPT0215-018.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583				
NAL13041-159	CRHE-DPT0215-018.0-20130326	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583	50	110		
NAL13041-159	CRHE-DPT0215-018.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583	50	116		
NAL13041-159	CRHE-DPT0215-018.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583	50	94		
NAL13041-159	CRHE-DPT0215-018.0-20130326	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7583	50	98		

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NAL13041-160	CRHE-DPT0215-023.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584				
NAL13041-160	CRHE-DPT0215-023.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584				
NAL13041-160	CRHE-DPT0215-023.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584				
NAL13041-160	CRHE-DPT0215-023.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584				
NAL13041-160	CRHE-DPT0215-023.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584				
NAL13041-160	CRHE-DPT0215-023.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584				
NAL13041-160	CRHE-DPT0215-023.0-20130326	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584	50	112		
NAL13041-160	CRHE-DPT0215-023.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584	50	114		
NAL13041-160	CRHE-DPT0215-023.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584	50	94		
NAL13041-160	CRHE-DPT0215-023.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7584	50	94		

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NAL13041-161	CRHE-DPT0215-028.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585				
NAL13041-161	CRHE-DPT0215-028.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585				
NAL13041-161	CRHE-DPT0215-028.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585				
NAL13041-161	CRHE-DPT0215-028.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585				
NAL13041-161	CRHE-DPT0215-028.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585				
NAL13041-161	CRHE-DPT0215-028.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585				
NAL13041-161	CRHE-DPT0215-028.0-20130326	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585	50	112		
NAL13041-161	CRHE-DPT0215-028.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585	50	116		
NAL13041-161	CRHE-DPT0215-028.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585	50	94		
NAL13041-161	CRHE-DPT0215-028.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7585	50	94		

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NAL13041-162	CRHE-DPT0215-033.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586				
NAL13041-162	CRHE-DPT0215-033.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586				
NAL13041-162	CRHE-DPT0215-033.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586				
NAL13041-162	CRHE-DPT0215-033.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586				
NAL13041-162	CRHE-DPT0215-033.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586				
NAL13041-162	CRHE-DPT0215-033.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586				
NAL13041-162	CRHE-DPT0215-033.0-20130326	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586	50	108		
NAL13041-162	CRHE-DPT0215-033.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586	50	110		
NAL13041-162	CRHE-DPT0215-033.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586	50	94		
NAL13041-162	CRHE-DPT0215-033.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7586	50	94		

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NAL13041-163	CRHE-DPT0215-038.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587				
NAL13041-163	CRHE-DPT0215-038.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587				
NAL13041-163	CRHE-DPT0215-038.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587				
NAL13041-163	CRHE-DPT0215-038.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587				
NAL13041-163	CRHE-DPT0215-038.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587				
NAL13041-163	CRHE-DPT0215-038.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587				
NAL13041-163	CRHE-DPT0215-038.0-20130326	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587	50	108		
NAL13041-163	CRHE-DPT0215-038.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587	50	110		
NAL13041-163	CRHE-DPT0215-038.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587	50	94		
NAL13041-163	CRHE-DPT0215-038.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7587	50	92		

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P032613CCVA	P032613CCVA	TRG	75-01-4	Vinyl Chloride	45		ug/L	1.0	0.13	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	90		
P032613CCVA	P032613CCVA	TRG	75-35-4	1,1-Dichloroethene	44		ug/L	1.0	0.18	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	88		
P032613CCVA	P032613CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	42		ug/L	1.0	0.28	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	84		
P032613CCVA	P032613CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	45		ug/L	1.0	0.20	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	90		
P032613CCVA	P032613CCVA	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	94		
P032613CCVA	P032613CCVA	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	94		
P032613CCVA	P032613CCVA	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	94		
P032613CCVA	P032613CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	92		
P032613CCVA	P032613CCVA	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	100		
P032613CCVA	P032613CCVA	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7573	50	102		

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P032613MBKA	P032613MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572				
P032613MBKA	P032613MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572				
P032613MBKA	P032613MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572				
P032613MBKA	P032613MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572				
P032613MBKA	P032613MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572				
P032613MBKA	P032613MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572				
P032613MBKA	P032613MBKA	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572	50	114		
P032613MBKA	P032613MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572	50	118		
P032613MBKA	P032613MBKA	SUR	2037-26-5	Toluene d8	46		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572	50	92		
P032613MBKA	P032613MBKA	SUR	460-00-4	Bromofluorobenzene	44		ug/L			NA	3/26/2013	3/26/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7572	50	88		

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P032613CCVC	P032613CCVC	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	94		
P032613CCVC	P032613CCVC	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	100		
P032613CCVC	P032613CCVC	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	94		
P032613CCVC	P032613CCVC	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	106		
P032613CCVC	P032613CCVC	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	108		
P032613CCVC	P032613CCVC	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7596	50	102		

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P032613MBKB	P032613MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	90		
P032613MBKB	P032613MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	112		
P032613MBKB	P032613MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	94		
P032613MBKB	P032613MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	94		

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P032613ALCS	P032613ALCS	TRG	75-01-4	Vinyl Chloride	45		ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	90		
P032613ALCS	P032613ALCS	TRG	75-35-4	1,1-Dichloroethene	52		ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	104		
P032613ALCS	P032613ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	102		
P032613ALCS	P032613ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	102		
P032613ALCS	P032613ALCS	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	106		
P032613ALCS	P032613ALCS	TRG	127-18-4	Tetrachloroethene	48		ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	96		
P032613ALCS	P032613ALCS	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	106		
P032613ALCS	P032613ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	106		
P032613ALCS	P032613ALCS	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	100		
P032613ALCS	P032613ALCS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7597	50	104		

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NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	92		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	86		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	TRG	156-60-5	Trans-1,2-Dichloroethene	44		ug/L	1.0	0.28	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	88		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	TRG	156-59-2	Cis-1,2-Dichloroethene	46		ug/L	1.0	0.20	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	92		1.0
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	100		0.85
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	TRG	127-18-4	Tetrachloroethene	46		ug/L	1.0	0.16	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	92		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	98		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	98		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	SUR	2037-26-5	Toluene d8	49		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	98		
NAL13041-144MS	CRHE-DPT0213-028.0-20130325MS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7594	50	102		

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NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	98	6	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	TRG	75-35-4	1,1-Dichloroethene	52		ug/L	1.0	0.18	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	104	19	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	106	19	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	110	18	1.0
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	TRG	79-01-6	Trichloroethene	55		ug/L	1.0	0.22	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	110	10	0.85
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	100	8	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	106	8	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	108	10	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	SUR	2037-26-5	Toluene d8	49		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	98	0	
NAL13041-144MSD	CRHE-DPT0213-028.0-20130325MSD	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7595	50	104	2	

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NAL13041-165	CRHE-DPT0215-058.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589				
NAL13041-165	CRHE-DPT0215-058.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589				
NAL13041-165	CRHE-DPT0215-058.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589				
NAL13041-165	CRHE-DPT0215-058.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589				
NAL13041-165	CRHE-DPT0215-058.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589				
NAL13041-165	CRHE-DPT0215-058.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589				
NAL13041-165	CRHE-DPT0215-058.0-20130326	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589	50	120		
NAL13041-165	CRHE-DPT0215-058.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589	50	122		
NAL13041-165	CRHE-DPT0215-058.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589	50	94		
NAL13041-165	CRHE-DPT0215-058.0-20130326	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7589	50	96		

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NAL13041-166	CRHE-DPT0216-010.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590				
NAL13041-166	CRHE-DPT0216-010.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590				
NAL13041-166	CRHE-DPT0216-010.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590				
NAL13041-166	CRHE-DPT0216-010.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590				
NAL13041-166	CRHE-DPT0216-010.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590				
NAL13041-166	CRHE-DPT0216-010.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590				
NAL13041-166	CRHE-DPT0216-010.0-20130326	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590	50	114		
NAL13041-166	CRHE-DPT0216-010.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590	50	118		
NAL13041-166	CRHE-DPT0216-010.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590	50	94		
NAL13041-166	CRHE-DPT0216-010.0-20130326	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/26/2013	3/26/2013	3/26/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7590	50	98		

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NAL13041-170	CRHE-DPT0216-033.0-20130326	TRG	75-01-4	Vinyl Chloride	120	I	ug/L	250	33	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601				
NAL13041-170	CRHE-DPT0216-033.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601				
NAL13041-170	CRHE-DPT0216-033.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601				
NAL13041-170	CRHE-DPT0216-033.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	640		ug/L	250	50	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601				
NAL13041-170	CRHE-DPT0216-033.0-20130326	TRG	79-01-6	Trichloroethene	130	I	ug/L	250	55	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601				
NAL13041-170	CRHE-DPT0216-033.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601				
NAL13041-170	CRHE-DPT0216-033.0-20130326	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601	50	114		
NAL13041-170	CRHE-DPT0216-033.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601	50	116		
NAL13041-170	CRHE-DPT0216-033.0-20130326	SUR	2037-26-5	Toluene d8	46		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601	50	92		
NAL13041-170	CRHE-DPT0216-033.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7601	50	92		

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NAL13041-171	CRHE-DPT0216-038.0-20130326	TRG	75-01-4	Vinyl Chloride	7200		ug/L	1000	130	3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602				
NAL13041-171	CRHE-DPT0216-038.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1000	180	3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602				
NAL13041-171	CRHE-DPT0216-038.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1000	280	3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602				
NAL13041-171	CRHE-DPT0216-038.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	34000		ug/L	1000	200	3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602				
NAL13041-171	CRHE-DPT0216-038.0-20130326	TRG	79-01-6	Trichloroethene	26000		ug/L	1000	220	3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602				
NAL13041-171	CRHE-DPT0216-038.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1000	160	3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602				
NAL13041-171	CRHE-DPT0216-038.0-20130326	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602	50	108		
NAL13041-171	CRHE-DPT0216-038.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602	50	106		
NAL13041-171	CRHE-DPT0216-038.0-20130326	SUR	2037-26-5	Toluene d8	46		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602	50	92		
NAL13041-171	CRHE-DPT0216-038.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7602	50	92		

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NAL13041-174	CRHE-DPT0217-010.0-20130326	TRG	75-01-4	Vinyl Chloride	5.9		ug/L	1.0	0.13	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623				
NAL13041-174	CRHE-DPT0217-010.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623				
NAL13041-174	CRHE-DPT0217-010.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623				
NAL13041-174	CRHE-DPT0217-010.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	1.4		ug/L	1.0	0.20	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623				
NAL13041-174	CRHE-DPT0217-010.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623				
NAL13041-174	CRHE-DPT0217-010.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623				
NAL13041-174	CRHE-DPT0217-010.0-20130326	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623	50	106		
NAL13041-174	CRHE-DPT0217-010.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623	50	100		
NAL13041-174	CRHE-DPT0217-010.0-20130326	SUR	2037-26-5	Toluene d8	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623	50	98		
NAL13041-174	CRHE-DPT0217-010.0-20130326	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7623	50	96		

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NAL13041-175	CRHE-DPT0217-018.0-20130326	TRG	75-01-4	Vinyl Chloride	440		ug/L	50	6.5	3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624				
NAL13041-175	CRHE-DPT0217-018.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624				
NAL13041-175	CRHE-DPT0217-018.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	170		ug/L	50	14	3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624				
NAL13041-175	CRHE-DPT0217-018.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	5800		ug/L	50	10	3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624				
NAL13041-175	CRHE-DPT0217-018.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624				
NAL13041-175	CRHE-DPT0217-018.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624				
NAL13041-175	CRHE-DPT0217-018.0-20130326	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624	50	116		
NAL13041-175	CRHE-DPT0217-018.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624	50	118		
NAL13041-175	CRHE-DPT0217-018.0-20130326	SUR	2037-26-5	Toluene d8	48		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624	50	96		
NAL13041-175	CRHE-DPT0217-018.0-20130326	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7624	50	98		

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NAL13041-177	CRHE-DPT0217-028.0-20130326	TRG	75-01-4	Vinyl Chloride	2200		ug/L	250	33	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622				
NAL13041-177	CRHE-DPT0217-028.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622				
NAL13041-177	CRHE-DPT0217-028.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	1400		ug/L	250	70	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622				
NAL13041-177	CRHE-DPT0217-028.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	4900		ug/L	250	50	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622				
NAL13041-177	CRHE-DPT0217-028.0-20130326	TRG	79-01-6	Trichloroethene	2100		ug/L	250	55	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622				
NAL13041-177	CRHE-DPT0217-028.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622				
NAL13041-177	CRHE-DPT0217-028.0-20130326	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622	50	120		
NAL13041-177	CRHE-DPT0217-028.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622	50	118		
NAL13041-177	CRHE-DPT0217-028.0-20130326	SUR	2037-26-5	Toluene d8	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622	50	98		
NAL13041-177	CRHE-DPT0217-028.0-20130326	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7622	50	98		

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NAL13041-178	CRHE-DPT0217-033.0-20130326	TRG	75-01-4	Vinyl Chloride	8200		ug/L	250	33	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621				
NAL13041-178	CRHE-DPT0217-033.0-20130326	TRG	75-35-4	1,1-Dichloroethene	6800		ug/L	250	45	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621				
NAL13041-178	CRHE-DPT0217-033.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	740		ug/L	250	70	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621				
NAL13041-178	CRHE-DPT0217-033.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	4500		ug/L	250	50	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621				
NAL13041-178	CRHE-DPT0217-033.0-20130326	TRG	79-01-6	Trichloroethene	2100		ug/L	250	55	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621				
NAL13041-178	CRHE-DPT0217-033.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621				
NAL13041-178	CRHE-DPT0217-033.0-20130326	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621	50	110		
NAL13041-178	CRHE-DPT0217-033.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621	50	112		
NAL13041-178	CRHE-DPT0217-033.0-20130326	SUR	2037-26-5	Toluene d8	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621	50	98		
NAL13041-178	CRHE-DPT0217-033.0-20130326	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7621	50	98		

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NAL13041-182	CRHE-DPT0214-068.0-20130326	TRG	75-01-4	Vinyl Chloride	1.3		ug/L	1.0	0.13	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614				
NAL13041-182	CRHE-DPT0214-068.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614				
NAL13041-182	CRHE-DPT0214-068.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614				
NAL13041-182	CRHE-DPT0214-068.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	7.4		ug/L	1.0	0.20	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614				
NAL13041-182	CRHE-DPT0214-068.0-20130326	TRG	79-01-6	Trichloroethene	1.7		ug/L	1.0	0.22	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614				
NAL13041-182	CRHE-DPT0214-068.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614				
NAL13041-182	CRHE-DPT0214-068.0-20130326	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614	50	120		
NAL13041-182	CRHE-DPT0214-068.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614	50	122		
NAL13041-182	CRHE-DPT0214-068.0-20130326	SUR	2037-26-5	Toluene d8	49		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614	50	98		
NAL13041-182	CRHE-DPT0214-068.0-20130326	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7614	50	104		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	TRG	75-01-4	Vinyl Chloride	470		ug/L	100	13	3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625				
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625				
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	TRG	156-60-5	Trans-1,2-Dichloroethene	5600		ug/L	100	28	3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625				
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	TRG	156-59-2	Cis-1,2-Dichloroethene	1700		ug/L	100	20	3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625				
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	TRG	79-01-6	Trichloroethene		U	ug/L	100	22	3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625				
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625				
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	SUR	1868-53-7	Dibromofluoromethane	40		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625	50	80		
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	SUR	17060-07-0	1,2-Dichloroethane d4	37		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625	50	74		
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	SUR	2037-26-5	Toluene d8	48		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625	50	96		
NAL13041-155RR	CRHE-DPT0214-043.0-20130325	SUR	460-00-4	Bromofluorobenzene	44		ug/L			3/25/2013	3/27/2013	3/27/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7625	50	88		

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P032613CCVC	P032613CCVC	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	94		
P032613CCVC	P032613CCVC	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	100		
P032613CCVC	P032613CCVC	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	94		
P032613CCVC	P032613CCVC	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	106		
P032613CCVC	P032613CCVC	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	108		
P032613CCVC	P032613CCVC	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	102		
P032613CCVC	P032613CCVC	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7596	50	102		

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P032613MBKB	P032613MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598				
P032613MBKB	P032613MBKB	SUR	1868-53-7	Dibromofluoromethane	44		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	88		
P032613MBKB	P032613MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	112		
P032613MBKB	P032613MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	94		
P032613MBKB	P032613MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7598	50	94		

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P032713CCVC	P032713CCVC	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	120		
P032713CCVC	P032713CCVC	TRG	75-35-4	1,1-Dichloroethene	45		ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	90		
P032713CCVC	P032713CCVC	TRG	156-60-5	Trans-1,2-Dichloroethene	43		ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	86		
P032713CCVC	P032713CCVC	TRG	156-59-2	Cis-1,2-Dichloroethene	57		ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	114		
P032713CCVC	P032713CCVC	TRG	79-01-6	Trichloroethene	56		ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	112		
P032713CCVC	P032713CCVC	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	102		
P032713CCVC	P032713CCVC	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	96		
P032713CCVC	P032713CCVC	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	116		
P032713CCVC	P032713CCVC	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	102		
P032713CCVC	P032713CCVC	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/27/2013	3/27/2013	WQ	1	-	5.0	NA	SW8260B	NALP7612	50	104		

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P032713MBKA	P032713MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613				
P032713MBKA	P032713MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613				
P032713MBKA	P032713MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613				
P032713MBKA	P032713MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613				
P032713MBKA	P032713MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613				
P032713MBKA	P032713MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613				
P032713MBKA	P032713MBKA	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613	50	106		
P032713MBKA	P032713MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613	50	110		
P032713MBKA	P032713MBKA	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613	50	98		
P032713MBKA	P032713MBKA	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7613	50	100		

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P032713ALCS	P032713ALCS	TRG	75-01-4	Vinyl Chloride	58		ug/L	1.0	0.13	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	116		
P032713ALCS	P032713ALCS	TRG	75-35-4	1,1-Dichloroethene	44		ug/L	1.0	0.18	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	88		
P032713ALCS	P032713ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	90		
P032713ALCS	P032713ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	102		
P032713ALCS	P032713ALCS	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	96		
P032713ALCS	P032713ALCS	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	94		
P032713ALCS	P032713ALCS	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	104		
P032713ALCS	P032713ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	100		
P032713ALCS	P032713ALCS	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	100		
P032713ALCS	P032713ALCS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/27/2013	3/27/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7626	50	100		

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ATTN: Ms. Jill Johnson

Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	TRG	75-01-4	Vinyl Chloride	62		ug/L	1.0	0.13	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	121		1.3
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	92		
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	TRG	156-60-5	Trans-1,2-Dichloroethene	47		ug/L	1.0	0.28	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	94		
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	108		7.4
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	106		1.7
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	102		
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	106		
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	102		
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	102		
NAL13041-182MS	CRHE-DPT0214-068.0-20130326MS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7628	50	100		

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NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	TRG	75-01-4	Vinyl Chloride	53		ug/L	1.0	0.13	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	103	16	1.3
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	84	9	
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	42		ug/L	1.0	0.28	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	84	11	
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	43		ug/L	1.0	0.20	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	86	23	7.4
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	94	12	1.7
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	TRG	127-18-4	Tetrachloroethene	48		ug/L	1.0	0.16	3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	96	6	
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	102	4	
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	100	2	
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	SUR	2037-26-5	Toluene d8	52		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	104	2	
NAL13041-182MSD	CRHE-DPT0214-068.0-20130326MSD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/26/2013	3/27/2013	3/27/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7629	50	102	2	

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NAL13041-183	CRHE-DPT0218-010.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650				
NAL13041-183	CRHE-DPT0218-010.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650				
NAL13041-183	CRHE-DPT0218-010.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650				
NAL13041-183	CRHE-DPT0218-010.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	1.1		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650				
NAL13041-183	CRHE-DPT0218-010.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650				
NAL13041-183	CRHE-DPT0218-010.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650				
NAL13041-183	CRHE-DPT0218-010.0-20130327	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650	50	122		
NAL13041-183	CRHE-DPT0218-010.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650	50	126		
NAL13041-183	CRHE-DPT0218-010.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650	50	94		
NAL13041-183	CRHE-DPT0218-010.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7650	50	100		

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NAL13041-184	CRHE-DPT0218-018.0-20130327	TRG	75-01-4	Vinyl Chloride	1.1		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651				
NAL13041-184	CRHE-DPT0218-018.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651				
NAL13041-184	CRHE-DPT0218-018.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651				
NAL13041-184	CRHE-DPT0218-018.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651				
NAL13041-184	CRHE-DPT0218-018.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651				
NAL13041-184	CRHE-DPT0218-018.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651				
NAL13041-184	CRHE-DPT0218-018.0-20130327	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651	50	120		
NAL13041-184	CRHE-DPT0218-018.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651	50	126		
NAL13041-184	CRHE-DPT0218-018.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651	50	96		
NAL13041-184	CRHE-DPT0218-018.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7651	50	100		

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NAL13041-185	CRHE-DPT0218-023.0-20130327	TRG	75-01-4	Vinyl Chloride	18		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652				
NAL13041-185	CRHE-DPT0218-023.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652				
NAL13041-185	CRHE-DPT0218-023.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	1.9		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652				
NAL13041-185	CRHE-DPT0218-023.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	13		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652				
NAL13041-185	CRHE-DPT0218-023.0-20130327	TRG	79-01-6	Trichloroethene	2.0		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652				
NAL13041-185	CRHE-DPT0218-023.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652				
NAL13041-185	CRHE-DPT0218-023.0-20130327	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652	50	120		
NAL13041-185	CRHE-DPT0218-023.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652	50	120		
NAL13041-185	CRHE-DPT0218-023.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652	50	96		
NAL13041-185	CRHE-DPT0218-023.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7652	50	100		

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NAL13041-186	CRHE-DPT0218-028.0-20130327	TRG	75-01-4	Vinyl Chloride	1500		ug/L	50	6.5	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653				
NAL13041-186	CRHE-DPT0218-028.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653				
NAL13041-186	CRHE-DPT0218-028.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653				
NAL13041-186	CRHE-DPT0218-028.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	50	10	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653				
NAL13041-186	CRHE-DPT0218-028.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653				
NAL13041-186	CRHE-DPT0218-028.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653				
NAL13041-186	CRHE-DPT0218-028.0-20130327	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653	50	116		
NAL13041-186	CRHE-DPT0218-028.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653	50	124		
NAL13041-186	CRHE-DPT0218-028.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653	50	96		
NAL13041-186	CRHE-DPT0218-028.0-20130327	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7653	50	102		

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316 S Baylen Str., Suite 201
Pensacola, FL 32502
ATTN: Ms. Jill Johnson

Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

Analytical results meet the requirements of NELAC Standards. The results reported apply solely to the sample analyzed and all results are reported on a dry weight basis unless stated otherwise. Any questions concerning this report should be directed to Scott D. Wall, President.
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NAL13041-187	CRHE-DPT0218-033.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	50	6.5	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654				
NAL13041-187	CRHE-DPT0218-033.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654				
NAL13041-187	CRHE-DPT0218-033.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654				
NAL13041-187	CRHE-DPT0218-033.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	120		ug/L	50	10	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654				
NAL13041-187	CRHE-DPT0218-033.0-20130327	TRG	79-01-6	Trichloroethene	23	I	ug/L	50	11	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654				
NAL13041-187	CRHE-DPT0218-033.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654				
NAL13041-187	CRHE-DPT0218-033.0-20130327	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654	50	116		
NAL13041-187	CRHE-DPT0218-033.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654	50	122		
NAL13041-187	CRHE-DPT0218-033.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654	50	94		
NAL13041-187	CRHE-DPT0218-033.0-20130327	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7654	50	98		

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NAL13041-188	CRHE-DPT0218-038.0-20130327	TRG	75-01-4	Vinyl Chloride	110		ug/L	50	6.5	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655				
NAL13041-188	CRHE-DPT0218-038.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655				
NAL13041-188	CRHE-DPT0218-038.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655				
NAL13041-188	CRHE-DPT0218-038.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	330		ug/L	50	10	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655				
NAL13041-188	CRHE-DPT0218-038.0-20130327	TRG	79-01-6	Trichloroethene	290		ug/L	50	11	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655				
NAL13041-188	CRHE-DPT0218-038.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655				
NAL13041-188	CRHE-DPT0218-038.0-20130327	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655	50	104		
NAL13041-188	CRHE-DPT0218-038.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655	50	108		
NAL13041-188	CRHE-DPT0218-038.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655	50	96		
NAL13041-188	CRHE-DPT0218-038.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7655	50	100		

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NAL13041-189	CRHE-DPT0218-043.0-20130327	TRG	75-01-4	Vinyl Chloride	12		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656				
NAL13041-189	CRHE-DPT0218-043.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656				
NAL13041-189	CRHE-DPT0218-043.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	2.3		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656				
NAL13041-189	CRHE-DPT0218-043.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	88		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656				
NAL13041-189	CRHE-DPT0218-043.0-20130327	TRG	79-01-6	Trichloroethene	61		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656				
NAL13041-189	CRHE-DPT0218-043.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656				
NAL13041-189	CRHE-DPT0218-043.0-20130327	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656	50	114		
NAL13041-189	CRHE-DPT0218-043.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656	50	116		
NAL13041-189	CRHE-DPT0218-043.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656	50	96		
NAL13041-189	CRHE-DPT0218-043.0-20130327	SUR	460-00-4	Bromofluorobenzene	53		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7656	50	106		

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NAL13041-190	CRHE-DPT0218-058.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648				
NAL13041-190	CRHE-DPT0218-058.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648				
NAL13041-190	CRHE-DPT0218-058.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648				
NAL13041-190	CRHE-DPT0218-058.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648				
NAL13041-190	CRHE-DPT0218-058.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648				
NAL13041-190	CRHE-DPT0218-058.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648				
NAL13041-190	CRHE-DPT0218-058.0-20130327	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648	50	122		
NAL13041-190	CRHE-DPT0218-058.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648	50	126		
NAL13041-190	CRHE-DPT0218-058.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648	50	96		
NAL13041-190	CRHE-DPT0218-058.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7648	50	100		

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NAL13041-191	CRHE-DPT0219-010.0-20130327	TRG	75-01-4	Vinyl Chloride	1.2		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657				
NAL13041-191	CRHE-DPT0219-010.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657				
NAL13041-191	CRHE-DPT0219-010.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657				
NAL13041-191	CRHE-DPT0219-010.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	5.4		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657				
NAL13041-191	CRHE-DPT0219-010.0-20130327	TRG	79-01-6	Trichloroethene	3.1		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657				
NAL13041-191	CRHE-DPT0219-010.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657				
NAL13041-191	CRHE-DPT0219-010.0-20130327	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657	50	120		
NAL13041-191	CRHE-DPT0219-010.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657	50	118		
NAL13041-191	CRHE-DPT0219-010.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657	50	96		
NAL13041-191	CRHE-DPT0219-010.0-20130327	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7657	50	104		

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NAL13041-192	CRHE-DPT0219-018.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658				
NAL13041-192	CRHE-DPT0219-018.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658				
NAL13041-192	CRHE-DPT0219-018.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658				
NAL13041-192	CRHE-DPT0219-018.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658				
NAL13041-192	CRHE-DPT0219-018.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658				
NAL13041-192	CRHE-DPT0219-018.0-20130327	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658	50	110		
NAL13041-192	CRHE-DPT0219-018.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658	50	116		
NAL13041-192	CRHE-DPT0219-018.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658	50	96		
NAL13041-192	CRHE-DPT0219-018.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7658	50	96		

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NAL13041-193	CRHE-DPT0219-023.0-20130327	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659				
NAL13041-193	CRHE-DPT0219-023.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659				
NAL13041-193	CRHE-DPT0219-023.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659				
NAL13041-193	CRHE-DPT0219-023.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	270		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659				
NAL13041-193	CRHE-DPT0219-023.0-20130327	TRG	79-01-6	Trichloroethene	150		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659				
NAL13041-193	CRHE-DPT0219-023.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659				
NAL13041-193	CRHE-DPT0219-023.0-20130327	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659	50	112		
NAL13041-193	CRHE-DPT0219-023.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659	50	114		
NAL13041-193	CRHE-DPT0219-023.0-20130327	SUR	2037-26-5	Toluene d8	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659	50	98		
NAL13041-193	CRHE-DPT0219-023.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7659	50	96		

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NAL13041-194	CRHE-DPT0219-028.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	50	6.5	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660				
NAL13041-194	CRHE-DPT0219-028.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660				
NAL13041-194	CRHE-DPT0219-028.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660				
NAL13041-194	CRHE-DPT0219-028.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	35	I	ug/L	50	10	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660				
NAL13041-194	CRHE-DPT0219-028.0-20130327	TRG	79-01-6	Trichloroethene	27	I	ug/L	50	11	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660				
NAL13041-194	CRHE-DPT0219-028.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660				
NAL13041-194	CRHE-DPT0219-028.0-20130327	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660	50	116		
NAL13041-194	CRHE-DPT0219-028.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660	50	120		
NAL13041-194	CRHE-DPT0219-028.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660	50	94		
NAL13041-194	CRHE-DPT0219-028.0-20130327	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7660	50	98		

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NAL13041-196	CRHE-DPT0219-038.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662				
NAL13041-196	CRHE-DPT0219-038.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662				
NAL13041-196	CRHE-DPT0219-038.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662				
NAL13041-196	CRHE-DPT0219-038.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662				
NAL13041-196	CRHE-DPT0219-038.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662				
NAL13041-196	CRHE-DPT0219-038.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662				
NAL13041-196	CRHE-DPT0219-038.0-20130327	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662	50	118		
NAL13041-196	CRHE-DPT0219-038.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662	50	124		
NAL13041-196	CRHE-DPT0219-038.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662	50	94		
NAL13041-196	CRHE-DPT0219-038.0-20130327	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7662	50	98		

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NAL13041-197	CRHE-DPT0219-043.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663				
NAL13041-197	CRHE-DPT0219-043.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663				
NAL13041-197	CRHE-DPT0219-043.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663				
NAL13041-197	CRHE-DPT0219-043.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663				
NAL13041-197	CRHE-DPT0219-043.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663				
NAL13041-197	CRHE-DPT0219-043.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663				
NAL13041-197	CRHE-DPT0219-043.0-20130327	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663	50	110		
NAL13041-197	CRHE-DPT0219-043.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663	50	116		
NAL13041-197	CRHE-DPT0219-043.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663	50	96		
NAL13041-197	CRHE-DPT0219-043.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7663	50	96		

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NAL13041-198	CRHE-DPT0219-058.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647				
NAL13041-198	CRHE-DPT0219-058.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647				
NAL13041-198	CRHE-DPT0219-058.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647				
NAL13041-198	CRHE-DPT0219-058.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647				
NAL13041-198	CRHE-DPT0219-058.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647				
NAL13041-198	CRHE-DPT0219-058.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647				
NAL13041-198	CRHE-DPT0219-058.0-20130327	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647	50	120		
NAL13041-198	CRHE-DPT0219-058.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	64		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647	50	128		
NAL13041-198	CRHE-DPT0219-058.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647	50	94		
NAL13041-198	CRHE-DPT0219-058.0-20130327	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7647	50	98		

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NAL13041-206	CRHE-IDW193861-20130327	TRG	75-01-4	Vinyl Chloride	56		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649				
NAL13041-206	CRHE-IDW193861-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649				
NAL13041-206	CRHE-IDW193861-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	21		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649				
NAL13041-206	CRHE-IDW193861-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	600		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649				
NAL13041-206	CRHE-IDW193861-20130327	TRG	79-01-6	Trichloroethene	140		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649				
NAL13041-206	CRHE-IDW193861-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649				
NAL13041-206	CRHE-IDW193861-20130327	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649	50	118		
NAL13041-206	CRHE-IDW193861-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649	50	122		
NAL13041-206	CRHE-IDW193861-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649	50	96		
NAL13041-206	CRHE-IDW193861-20130327	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7649	50	98		

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NAL13041-208	CRHE-DPT0220-068.0-20130327	TRG	75-01-4	Vinyl Chloride	1.1		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646				
NAL13041-208	CRHE-DPT0220-068.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646				
NAL13041-208	CRHE-DPT0220-068.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	1.5		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646				
NAL13041-208	CRHE-DPT0220-068.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	14		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646				
NAL13041-208	CRHE-DPT0220-068.0-20130327	TRG	79-01-6	Trichloroethene	6.5		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646				
NAL13041-208	CRHE-DPT0220-068.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646				
NAL13041-208	CRHE-DPT0220-068.0-20130327	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646	50	122		
NAL13041-208	CRHE-DPT0220-068.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646	50	126		
NAL13041-208	CRHE-DPT0220-068.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646	50	94		
NAL13041-208	CRHE-DPT0220-068.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7646	50	100		

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NAL13041-209	CRHE-DPT0216-068.0-20130327	TRG	75-01-4	Vinyl Chloride	1.5		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645				
NAL13041-209	CRHE-DPT0216-068.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645				
NAL13041-209	CRHE-DPT0216-068.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	1.7		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645				
NAL13041-209	CRHE-DPT0216-068.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	22		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645				
NAL13041-209	CRHE-DPT0216-068.0-20130327	TRG	79-01-6	Trichloroethene	19		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645				
NAL13041-209	CRHE-DPT0216-068.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645				
NAL13041-209	CRHE-DPT0216-068.0-20130327	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645	50	104		
NAL13041-209	CRHE-DPT0216-068.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645	50	120		
NAL13041-209	CRHE-DPT0216-068.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645	50	94		
NAL13041-209	CRHE-DPT0216-068.0-20130327	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7645	50	100		

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NAL13041-210	CRHE-DPT0217-068.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644				
NAL13041-210	CRHE-DPT0217-068.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644				
NAL13041-210	CRHE-DPT0217-068.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644				
NAL13041-210	CRHE-DPT0217-068.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	5.9		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644				
NAL13041-210	CRHE-DPT0217-068.0-20130327	TRG	79-01-6	Trichloroethene	8.5		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644				
NAL13041-210	CRHE-DPT0217-068.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644				
NAL13041-210	CRHE-DPT0217-068.0-20130327	SUR	1868-53-7	Dibromofluoromethane	37		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644	50	74		
NAL13041-210	CRHE-DPT0217-068.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	38		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644	50	76		
NAL13041-210	CRHE-DPT0217-068.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644	50	94		
NAL13041-210	CRHE-DPT0217-068.0-20130327	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7644	50	92		

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P032713CCVE	P032713CCVE	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	118		
P032713CCVE	P032713CCVE	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	94		
P032713CCVE	P032713CCVE	TRG	156-60-5	Trans-1,2-Dichloroethene	49		ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	98		
P032713CCVE	P032713CCVE	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	100		
P032713CCVE	P032713CCVE	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	102		
P032713CCVE	P032713CCVE	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	102		
P032713CCVE	P032713CCVE	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	106		
P032713CCVE	P032713CCVE	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	104		
P032713CCVE	P032713CCVE	SUR	2037-26-5	Toluene d8	52		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	104		
P032713CCVE	P032713CCVE	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7641	50	102		

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P032713MBKC	P032713MBKC	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643				
P032713MBKC	P032713MBKC	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643				
P032713MBKC	P032713MBKC	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643				
P032713MBKC	P032713MBKC	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643				
P032713MBKC	P032713MBKC	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643				
P032713MBKC	P032713MBKC	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643				
P032713MBKC	P032713MBKC	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643	50	120		
P032713MBKC	P032713MBKC	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643	50	122		
P032713MBKC	P032713MBKC	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643	50	96		
P032713MBKC	P032713MBKC	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7643	50	98		

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P032813CCVA	P032813CCVA	TRG	75-01-4	Vinyl Chloride	53		ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	106		
P032813CCVA	P032813CCVA	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	96		
P032813CCVA	P032813CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	92		
P032813CCVA	P032813CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	46		ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	92		
P032813CCVA	P032813CCVA	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	106		
P032813CCVA	P032813CCVA	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	108		
P032813CCVA	P032813CCVA	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	102		
P032813CCVA	P032813CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	104		
P032813CCVA	P032813CCVA	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	102		
P032813CCVA	P032813CCVA	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	102		

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P032813MBKB	P032813MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKB	P032813MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKB	P032813MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKB	P032813MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKB	P032813MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKB	P032813MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKB	P032813MBKB	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	112		
P032813MBKB	P032813MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	118		
P032813MBKB	P032813MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	94		
P032813MBKB	P032813MBKB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	96		

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Project #: NAL13-041
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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P032813ALCS	P032813ALCS	TRG	75-01-4	Vinyl Chloride	44		ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	88		
P032813ALCS	P032813ALCS	TRG	75-35-4	1,1-Dichloroethene	39		ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	78		
P032813ALCS	P032813ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	38		ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	76		
P032813ALCS	P032813ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	39		ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	78		
P032813ALCS	P032813ALCS	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	96		
P032813ALCS	P032813ALCS	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	94		
P032813ALCS	P032813ALCS	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	98		
P032813ALCS	P032813ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	96		
P032813ALCS	P032813ALCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	98		
P032813ALCS	P032813ALCS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7665	50	102		

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NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	102		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	94		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	92		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	TRG	156-59-2	Cis-1,2-Dichloroethene	46		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	92		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	104		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	102		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	104		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	104		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	102		
NAL13041-197MS	CRHE-DPT0219-043.0-20130327MS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7666	50	104		

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NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	94	8	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	80	16	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	40		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	80	14	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	42		ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	84	9	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	100	4	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	100	2	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	94	10	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	94	10	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	SUR	2037-26-5	Toluene d8	50		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	100	2	
NAL13041-197MSD	CRHE-DPT0219-043.0-20130327MSD	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7667	50	102	2	

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NAL13041-199	CRHE-DPT0220-010.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669				
NAL13041-199	CRHE-DPT0220-010.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669				
NAL13041-199	CRHE-DPT0220-010.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669				
NAL13041-199	CRHE-DPT0220-010.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669				
NAL13041-199	CRHE-DPT0220-010.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669				
NAL13041-199	CRHE-DPT0220-010.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669				
NAL13041-199	CRHE-DPT0220-010.0-20130327	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669	50	98		
NAL13041-199	CRHE-DPT0220-010.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669	50	96		
NAL13041-199	CRHE-DPT0220-010.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669	50	96		
NAL13041-199	CRHE-DPT0220-010.0-20130327	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7669	50	94		

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NAL13041-200	CRHE-DPT0220-018.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670				
NAL13041-200	CRHE-DPT0220-018.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670				
NAL13041-200	CRHE-DPT0220-018.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	1.5		ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670				
NAL13041-200	CRHE-DPT0220-018.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670				
NAL13041-200	CRHE-DPT0220-018.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670				
NAL13041-200	CRHE-DPT0220-018.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670				
NAL13041-200	CRHE-DPT0220-018.0-20130327	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670	50	116		
NAL13041-200	CRHE-DPT0220-018.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670	50	122		
NAL13041-200	CRHE-DPT0220-018.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670	50	94		
NAL13041-200	CRHE-DPT0220-018.0-20130327	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7670	50	98		

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NAL13041-202	CRHE-DPT0220-028.0-20130327	TRG	75-01-4	Vinyl Chloride	83		ug/L	50	6.5	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672				
NAL13041-202	CRHE-DPT0220-028.0-20130327	TRG	75-35-4	1,1-Dichloroethene	150		ug/L	50	9.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672				
NAL13041-202	CRHE-DPT0220-028.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	76		ug/L	50	14	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672				
NAL13041-202	CRHE-DPT0220-028.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	590		ug/L	50	10	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672				
NAL13041-202	CRHE-DPT0220-028.0-20130327	TRG	79-01-6	Trichloroethene	680		ug/L	50	11	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672				
NAL13041-202	CRHE-DPT0220-028.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672				
NAL13041-202	CRHE-DPT0220-028.0-20130327	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672	50	110		
NAL13041-202	CRHE-DPT0220-028.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672	50	114		
NAL13041-202	CRHE-DPT0220-028.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672	50	96		
NAL13041-202	CRHE-DPT0220-028.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7672	50	96		

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NAL13041-204	CRHE-DPT0220-038.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674				
NAL13041-204	CRHE-DPT0220-038.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674				
NAL13041-204	CRHE-DPT0220-038.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674				
NAL13041-204	CRHE-DPT0220-038.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674				
NAL13041-204	CRHE-DPT0220-038.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674				
NAL13041-204	CRHE-DPT0220-038.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674				
NAL13041-204	CRHE-DPT0220-038.0-20130327	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674	50	118		
NAL13041-204	CRHE-DPT0220-038.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674	50	124		
NAL13041-204	CRHE-DPT0220-038.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674	50	94		
NAL13041-204	CRHE-DPT0220-038.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7674	50	96		

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NAL13041-211	CRHE-DPT0221-010.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677				
NAL13041-211	CRHE-DPT0221-010.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677				
NAL13041-211	CRHE-DPT0221-010.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677				
NAL13041-211	CRHE-DPT0221-010.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677				
NAL13041-211	CRHE-DPT0221-010.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677				
NAL13041-211	CRHE-DPT0221-010.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677				
NAL13041-211	CRHE-DPT0221-010.0-20130328	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677	50	120		
NAL13041-211	CRHE-DPT0221-010.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677	50	126		
NAL13041-211	CRHE-DPT0221-010.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677	50	96		
NAL13041-211	CRHE-DPT0221-010.0-20130328	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7677	50	98		

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NAL13041-218	CRHE-DPT0221-058.0-20130328	TRG	75-01-4	Vinyl Chloride	1.4		ug/L	1.0	0.13	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678				
NAL13041-218	CRHE-DPT0221-058.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678				
NAL13041-218	CRHE-DPT0221-058.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678				
NAL13041-218	CRHE-DPT0221-058.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene	4.5		ug/L	1.0	0.20	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678				
NAL13041-218	CRHE-DPT0221-058.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678				
NAL13041-218	CRHE-DPT0221-058.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678				
NAL13041-218	CRHE-DPT0221-058.0-20130328	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678	50	118		
NAL13041-218	CRHE-DPT0221-058.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678	50	126		
NAL13041-218	CRHE-DPT0221-058.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678	50	96		
NAL13041-218	CRHE-DPT0221-058.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7678	50	100		

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NAL13041-219	CRHE-DPT0222-010.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679				
NAL13041-219	CRHE-DPT0222-010.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679				
NAL13041-219	CRHE-DPT0222-010.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679				
NAL13041-219	CRHE-DPT0222-010.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679				
NAL13041-219	CRHE-DPT0222-010.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679				
NAL13041-219	CRHE-DPT0222-010.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679				
NAL13041-219	CRHE-DPT0222-010.0-20130328	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679	50	122		
NAL13041-219	CRHE-DPT0222-010.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679	50	130		
NAL13041-219	CRHE-DPT0222-010.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679	50	94		
NAL13041-219	CRHE-DPT0222-010.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7679	50	100		

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NAL13041-226	CRHE-DPT0222-058.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680				
NAL13041-226	CRHE-DPT0222-058.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680				
NAL13041-226	CRHE-DPT0222-058.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680				
NAL13041-226	CRHE-DPT0222-058.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680				
NAL13041-226	CRHE-DPT0222-058.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680				
NAL13041-226	CRHE-DPT0222-058.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680				
NAL13041-226	CRHE-DPT0222-058.0-20130328	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680	50	114		
NAL13041-226	CRHE-DPT0222-058.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680	50	120		
NAL13041-226	CRHE-DPT0222-058.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680	50	96		
NAL13041-226	CRHE-DPT0222-058.0-20130328	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7680	50	98		

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NAL13041-227	CRHE-DPT0223-010.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681				
NAL13041-227	CRHE-DPT0223-010.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681				
NAL13041-227	CRHE-DPT0223-010.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681				
NAL13041-227	CRHE-DPT0223-010.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681				
NAL13041-227	CRHE-DPT0223-010.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681				
NAL13041-227	CRHE-DPT0223-010.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681				
NAL13041-227	CRHE-DPT0223-010.0-20130328	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681	50	118		
NAL13041-227	CRHE-DPT0223-010.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681	50	130		
NAL13041-227	CRHE-DPT0223-010.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681	50	96		
NAL13041-227	CRHE-DPT0223-010.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7681	50	100		

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NAL13041-228	CRHE-DPT0223-018.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682				
NAL13041-228	CRHE-DPT0223-018.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682				
NAL13041-228	CRHE-DPT0223-018.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682				
NAL13041-228	CRHE-DPT0223-018.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682				
NAL13041-228	CRHE-DPT0223-018.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682				
NAL13041-228	CRHE-DPT0223-018.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682				
NAL13041-228	CRHE-DPT0223-018.0-20130328	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682	50	116		
NAL13041-228	CRHE-DPT0223-018.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682	50	126		
NAL13041-228	CRHE-DPT0223-018.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682	50	96		
NAL13041-228	CRHE-DPT0223-018.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/28/2013	3/28/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7682	50	100		

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NAL13041-229	CRHE-DPT0223-023.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683				
NAL13041-229	CRHE-DPT0223-023.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683				
NAL13041-229	CRHE-DPT0223-023.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683				
NAL13041-229	CRHE-DPT0223-023.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683				
NAL13041-229	CRHE-DPT0223-023.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683				
NAL13041-229	CRHE-DPT0223-023.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683				
NAL13041-229	CRHE-DPT0223-023.0-20130328	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683	50	122		
NAL13041-229	CRHE-DPT0223-023.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683	50	130		
NAL13041-229	CRHE-DPT0223-023.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683	50	94		
NAL13041-229	CRHE-DPT0223-023.0-20130328	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7683	50	102		

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NAL13041-230	CRHE-DPT0223-028.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684				
NAL13041-230	CRHE-DPT0223-028.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684				
NAL13041-230	CRHE-DPT0223-028.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684				
NAL13041-230	CRHE-DPT0223-028.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684				
NAL13041-230	CRHE-DPT0223-028.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684				
NAL13041-230	CRHE-DPT0223-028.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684				
NAL13041-230	CRHE-DPT0223-028.0-20130328	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684	50	118		
NAL13041-230	CRHE-DPT0223-028.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684	50	130		
NAL13041-230	CRHE-DPT0223-028.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684	50	94		
NAL13041-230	CRHE-DPT0223-028.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7684	50	100		

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NAL13041-231	CRHE-DPT0223-033.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685				
NAL13041-231	CRHE-DPT0223-033.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685				
NAL13041-231	CRHE-DPT0223-033.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685				
NAL13041-231	CRHE-DPT0223-033.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685				
NAL13041-231	CRHE-DPT0223-033.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685				
NAL13041-231	CRHE-DPT0223-033.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685				
NAL13041-231	CRHE-DPT0223-033.0-20130328	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685	50	110		
NAL13041-231	CRHE-DPT0223-033.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685	50	118		
NAL13041-231	CRHE-DPT0223-033.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685	50	96		
NAL13041-231	CRHE-DPT0223-033.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7685	50	100		

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NAL13041-232	CRHE-DPT0223-038.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686				
NAL13041-232	CRHE-DPT0223-038.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686				
NAL13041-232	CRHE-DPT0223-038.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686				
NAL13041-232	CRHE-DPT0223-038.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686				
NAL13041-232	CRHE-DPT0223-038.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686				
NAL13041-232	CRHE-DPT0223-038.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686				
NAL13041-232	CRHE-DPT0223-038.0-20130328	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686	50	116		
NAL13041-232	CRHE-DPT0223-038.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	64		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686	50	128		
NAL13041-232	CRHE-DPT0223-038.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686	50	94		
NAL13041-232	CRHE-DPT0223-038.0-20130328	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7686	50	102		

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NAL13041-233	CRHE-DPT0223-043.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687				
NAL13041-233	CRHE-DPT0223-043.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687				
NAL13041-233	CRHE-DPT0223-043.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687				
NAL13041-233	CRHE-DPT0223-043.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687				
NAL13041-233	CRHE-DPT0223-043.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687				
NAL13041-233	CRHE-DPT0223-043.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687				
NAL13041-233	CRHE-DPT0223-043.0-20130328	SUR	1868-53-7	Dibromofluoromethane	62		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687	50	124		
NAL13041-233	CRHE-DPT0223-043.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	67		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687	50	134		
NAL13041-233	CRHE-DPT0223-043.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687	50	94		
NAL13041-233	CRHE-DPT0223-043.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7687	50	100		

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Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P032813CCVA	P032813CCVA	TRG	75-01-4	Vinyl Chloride	53		ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	106		
P032813CCVA	P032813CCVA	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	96		
P032813CCVA	P032813CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	92		
P032813CCVA	P032813CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	46		ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	92		
P032813CCVA	P032813CCVA	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	106		
P032813CCVA	P032813CCVA	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	108		
P032813CCVA	P032813CCVA	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	102		
P032813CCVA	P032813CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	106		
P032813CCVA	P032813CCVA	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	102		
P032813CCVA	P032813CCVA	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/28/2013	3/28/2013	WQ	1	-	5.0	NA	SW8260B	NALP7664	50	102		

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P032813MBKA	P032813MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKA	P032813MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKA	P032813MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKA	P032813MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKA	P032813MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKA	P032813MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668				
P032813MBKA	P032813MBKA	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	112		
P032813MBKA	P032813MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	118		
P032813MBKA	P032813MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	94		
P032813MBKA	P032813MBKA	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/28/2013	3/28/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7668	50	96		

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P032813CCVB	P032813CCVB	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	92		
P032813CCVB	P032813CCVB	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	82		
P032813CCVB	P032813CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	41		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	82		
P032813CCVB	P032813CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	42		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	84		
P032813CCVB	P032813CCVB	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	102		
P032813CCVB	P032813CCVB	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	98		
P032813CCVB	P032813CCVB	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	100		
P032813CCVB	P032813CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	106		
P032813CCVB	P032813CCVB	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	100		
P032813CCVB	P032813CCVB	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7689	50	104		

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P032813BLCS	P032813BLCS	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	96		
P032813BLCS	P032813BLCS	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	96		
P032813BLCS	P032813BLCS	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	90		
P032813BLCS	P032813BLCS	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	94		
P032813BLCS	P032813BLCS	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	100		
P032813BLCS	P032813BLCS	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	94		
P032813BLCS	P032813BLCS	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	110		
P032813BLCS	P032813BLCS	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	116		
P032813BLCS	P032813BLCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	102		
P032813BLCS	P032813BLCS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7690	50	104		

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P032813BLCD	P032813BLCD	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	102	6	
P032813BLCD	P032813BLCD	TRG	75-35-4	1,1-Dichloroethene	45		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	90	6	
P032813BLCD	P032813BLCD	TRG	156-60-5	Trans-1,2-Dichloroethene	44		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	88	2	
P032813BLCD	P032813BLCD	TRG	156-59-2	Cis-1,2-Dichloroethene	46		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	92	2	
P032813BLCD	P032813BLCD	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	108	8	
P032813BLCD	P032813BLCD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	100	6	
P032813BLCD	P032813BLCD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	102	8	
P032813BLCD	P032813BLCD	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	104	11	
P032813BLCD	P032813BLCD	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	102	0	
P032813BLCD	P032813BLCD	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7691	50	104	0	

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NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	TRG	75-01-4	Vinyl Chloride	53		ug/L	1.0	0.13	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	106		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	TRG	75-35-4	1,1-Dichloroethene	54		ug/L	1.0	0.18	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	108		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	106		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	108		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	TRG	79-01-6	Trichloroethene	58		ug/L	1.0	0.22	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	116		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	TRG	127-18-4	Tetrachloroethene	56		ug/L	1.0	0.16	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	112		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	108		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	108		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	102		
NAL13041-199MS	CRHE-DPT0220-010.0-20130327MS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7692	50	104		

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NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	TRG	75-01-4	Vinyl Chloride	42		ug/L	1.0	0.13	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	84	23	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	84	25	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	42		ug/L	1.0	0.28	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	84	23	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	44		ug/L	1.0	0.20	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	88	20	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	96	19	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	TRG	127-18-4	Tetrachloroethene	44		ug/L	1.0	0.16	3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	88	24	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	108	0	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	116	7	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	SUR	2037-26-5	Toluene d8	51		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	102	0	
NAL13041-199MSD	CRHE-DPT0220-010.0-20130327MSD	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/27/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7693	50	104	0	

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NAL13041-212	CRHE-DPT0221-018.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721				
NAL13041-212	CRHE-DPT0221-018.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721				
NAL13041-212	CRHE-DPT0221-018.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721				
NAL13041-212	CRHE-DPT0221-018.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene	21		ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721				
NAL13041-212	CRHE-DPT0221-018.0-20130328	TRG	79-01-6	Trichloroethene	9.6		ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721				
NAL13041-212	CRHE-DPT0221-018.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721				
NAL13041-212	CRHE-DPT0221-018.0-20130328	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721	50	120		
NAL13041-212	CRHE-DPT0221-018.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	64		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721	50	128		
NAL13041-212	CRHE-DPT0221-018.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721	50	96		
NAL13041-212	CRHE-DPT0221-018.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7721	50	100		

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NAL13041-213	CRHE-DPT0221-023.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222				
NAL13041-213	CRHE-DPT0221-023.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222				
NAL13041-213	CRHE-DPT0221-023.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222				
NAL13041-213	CRHE-DPT0221-023.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222				
NAL13041-213	CRHE-DPT0221-023.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222				
NAL13041-213	CRHE-DPT0221-023.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222				
NAL13041-213	CRHE-DPT0221-023.0-20130328	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222	50	118		
NAL13041-213	CRHE-DPT0221-023.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	63		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222	50	126		
NAL13041-213	CRHE-DPT0221-023.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222	50	96		
NAL13041-213	CRHE-DPT0221-023.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7222	50	100		

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NAL13041-214	CRHE-DPT0221-028.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223				
NAL13041-214	CRHE-DPT0221-028.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223				
NAL13041-214	CRHE-DPT0221-028.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223				
NAL13041-214	CRHE-DPT0221-028.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223				
NAL13041-214	CRHE-DPT0221-028.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223				
NAL13041-214	CRHE-DPT0221-028.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223				
NAL13041-214	CRHE-DPT0221-028.0-20130328	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223	50	116		
NAL13041-214	CRHE-DPT0221-028.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223	50	124		
NAL13041-214	CRHE-DPT0221-028.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223	50	96		
NAL13041-214	CRHE-DPT0221-028.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7223	50	100		

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NAL13041-215	CRHE-DPT0221-033.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224				
NAL13041-215	CRHE-DPT0221-033.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224				
NAL13041-215	CRHE-DPT0221-033.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224				
NAL13041-215	CRHE-DPT0221-033.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224				
NAL13041-215	CRHE-DPT0221-033.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224				
NAL13041-215	CRHE-DPT0221-033.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224				
NAL13041-215	CRHE-DPT0221-033.0-20130328	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224	50	120		
NAL13041-215	CRHE-DPT0221-033.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	66		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224	50	132		
NAL13041-215	CRHE-DPT0221-033.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224	50	94		
NAL13041-215	CRHE-DPT0221-033.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7224	50	100		

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NAL13041-216	CRHE-DPT0221-038.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225				
NAL13041-216	CRHE-DPT0221-038.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225				
NAL13041-216	CRHE-DPT0221-038.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225				
NAL13041-216	CRHE-DPT0221-038.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225				
NAL13041-216	CRHE-DPT0221-038.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225				
NAL13041-216	CRHE-DPT0221-038.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225				
NAL13041-216	CRHE-DPT0221-038.0-20130328	SUR	1868-53-7	Dibromofluoromethane	62		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225	50	124		
NAL13041-216	CRHE-DPT0221-038.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	70		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225	50	140		
NAL13041-216	CRHE-DPT0221-038.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225	50	94		
NAL13041-216	CRHE-DPT0221-038.0-20130328	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7225	50	104		

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NAL13041-217	CRHE-DPT0221-043.0-20130328	TRG	75-01-4	Vinyl Chloride	1200		ug/L	50	6.5	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226				
NAL13041-217	CRHE-DPT0221-043.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226				
NAL13041-217	CRHE-DPT0221-043.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226				
NAL13041-217	CRHE-DPT0221-043.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene	1500		ug/L	50	10	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226				
NAL13041-217	CRHE-DPT0221-043.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226				
NAL13041-217	CRHE-DPT0221-043.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226				
NAL13041-217	CRHE-DPT0221-043.0-20130328	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226	50	114		
NAL13041-217	CRHE-DPT0221-043.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226	50	124		
NAL13041-217	CRHE-DPT0221-043.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226	50	96		
NAL13041-217	CRHE-DPT0221-043.0-20130328	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7226	50	98		

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NAL13041-220	CRHE-DPT0222-018.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227				
NAL13041-220	CRHE-DPT0222-018.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227				
NAL13041-220	CRHE-DPT0222-018.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227				
NAL13041-220	CRHE-DPT0222-018.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227				
NAL13041-220	CRHE-DPT0222-018.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227				
NAL13041-220	CRHE-DPT0222-018.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227				
NAL13041-220	CRHE-DPT0222-018.0-20130328	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227	50	122		
NAL13041-220	CRHE-DPT0222-018.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	66		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227	50	132		
NAL13041-220	CRHE-DPT0222-018.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227	50	94		
NAL13041-220	CRHE-DPT0222-018.0-20130328	SUR	460-00-4	Bromofluorobenzene	51		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7227	50	102		

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NAL13041-221	CRHE-DPT0222-023.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228				
NAL13041-221	CRHE-DPT0222-023.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228				
NAL13041-221	CRHE-DPT0222-023.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228				
NAL13041-221	CRHE-DPT0222-023.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228				
NAL13041-221	CRHE-DPT0222-023.0-20130328	TRG	79-01-6	Trichloroethene	1.2		ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228				
NAL13041-221	CRHE-DPT0222-023.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228				
NAL13041-221	CRHE-DPT0222-023.0-20130328	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228	50	110		
NAL13041-221	CRHE-DPT0222-023.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228	50	124		
NAL13041-221	CRHE-DPT0222-023.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228	50	94		
NAL13041-221	CRHE-DPT0222-023.0-20130328	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7228	50	98		

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NAL13041-234	CRHE-DPT0223-058.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698				
NAL13041-234	CRHE-DPT0223-058.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698				
NAL13041-234	CRHE-DPT0223-058.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698				
NAL13041-234	CRHE-DPT0223-058.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698				
NAL13041-234	CRHE-DPT0223-058.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698				
NAL13041-234	CRHE-DPT0223-058.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698				
NAL13041-234	CRHE-DPT0223-058.0-20130328	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698	50	98		
NAL13041-234	CRHE-DPT0223-058.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698	50	116		
NAL13041-234	CRHE-DPT0223-058.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698	50	96		
NAL13041-234	CRHE-DPT0223-058.0-20130328	SUR	460-00-4	Bromofluorobenzene	52		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7698	50	104		

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NAL13041-235	CRHE-DPT0224-010.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701				
NAL13041-235	CRHE-DPT0224-010.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701				
NAL13041-235	CRHE-DPT0224-010.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701				
NAL13041-235	CRHE-DPT0224-010.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene	9.8		ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701				
NAL13041-235	CRHE-DPT0224-010.0-20130328	TRG	79-01-6	Trichloroethene	11		ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701				
NAL13041-235	CRHE-DPT0224-010.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701				
NAL13041-235	CRHE-DPT0224-010.0-20130328	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701	50	118		
NAL13041-235	CRHE-DPT0224-010.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701	50	120		
NAL13041-235	CRHE-DPT0224-010.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701	50	96		
NAL13041-235	CRHE-DPT0224-010.0-20130328	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7701	50	100		

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NAL13041-236	CRHE-DPT0224-018.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704				
NAL13041-236	CRHE-DPT0224-018.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704				
NAL13041-236	CRHE-DPT0224-018.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704				
NAL13041-236	CRHE-DPT0224-018.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704				
NAL13041-236	CRHE-DPT0224-018.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704				
NAL13041-236	CRHE-DPT0224-018.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704				
NAL13041-236	CRHE-DPT0224-018.0-20130328	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704	50	94		
NAL13041-236	CRHE-DPT0224-018.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704	50	96		
NAL13041-236	CRHE-DPT0224-018.0-20130328	SUR	2037-26-5	Toluene d8	49		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704	50	98		
NAL13041-236	CRHE-DPT0224-018.0-20130328	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7704	50	94		

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NAL13041-237	CRHE-DPT0224-023.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706				
NAL13041-237	CRHE-DPT0224-023.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706				
NAL13041-237	CRHE-DPT0224-023.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706				
NAL13041-237	CRHE-DPT0224-023.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706				
NAL13041-237	CRHE-DPT0224-023.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706				
NAL13041-237	CRHE-DPT0224-023.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706				
NAL13041-237	CRHE-DPT0224-023.0-20130328	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706	50	114		
NAL13041-237	CRHE-DPT0224-023.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706	50	120		
NAL13041-237	CRHE-DPT0224-023.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706	50	96		
NAL13041-237	CRHE-DPT0224-023.0-20130328	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7706	50	96		

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NAL13041-238	CRHE-DPT0224-028.0-20130328	TRG	75-01-4	Vinyl Chloride	260		ug/L	50	6.5	3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707				
NAL13041-238	CRHE-DPT0224-028.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707				
NAL13041-238	CRHE-DPT0224-028.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene	81		ug/L	50	14	3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707				
NAL13041-238	CRHE-DPT0224-028.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene	380		ug/L	50	10	3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707				
NAL13041-238	CRHE-DPT0224-028.0-20130328	TRG	79-01-6	Trichloroethene	230		ug/L	50	11	3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707				
NAL13041-238	CRHE-DPT0224-028.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707				
NAL13041-238	CRHE-DPT0224-028.0-20130328	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707	50	108		
NAL13041-238	CRHE-DPT0224-028.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707	50	118		
NAL13041-238	CRHE-DPT0224-028.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707	50	94		
NAL13041-238	CRHE-DPT0224-028.0-20130328	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7707	50	96		

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NAL13041-239	CRHE-IDW193862-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	10.0	1.30	3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700				
NAL13041-239	CRHE-IDW193862-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10.0	1.80	3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700				
NAL13041-239	CRHE-IDW193862-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10.0	2.80	3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700				
NAL13041-239	CRHE-IDW193862-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene	25		ug/L	10.0	2.00	3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700				
NAL13041-239	CRHE-IDW193862-20130328	TRG	79-01-6	Trichloroethene	11		ug/L	10.0	2.20	3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700				
NAL13041-239	CRHE-IDW193862-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	10.0	1.60	3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700				
NAL13041-239	CRHE-IDW193862-20130328	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700	50	102		
NAL13041-239	CRHE-IDW193862-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700	50	106		
NAL13041-239	CRHE-IDW193862-20130328	SUR	2037-26-5	Toluene d8	49		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700	50	98		
NAL13041-239	CRHE-IDW193862-20130328	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/28/2013	3/29/2013	3/29/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7700	50	96		

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NAL13041-240	CRHE-DPT0224-033.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	100	13	3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708				
NAL13041-240	CRHE-DPT0224-033.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708				
NAL13041-240	CRHE-DPT0224-033.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708				
NAL13041-240	CRHE-DPT0224-033.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene	64	I	ug/L	100	20	3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708				
NAL13041-240	CRHE-DPT0224-033.0-20130329	TRG	79-01-6	Trichloroethene	54	I	ug/L	100	22	3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708				
NAL13041-240	CRHE-DPT0224-033.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708				
NAL13041-240	CRHE-DPT0224-033.0-20130329	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708	50	112		
NAL13041-240	CRHE-DPT0224-033.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708	50	120		
NAL13041-240	CRHE-DPT0224-033.0-20130329	SUR	2037-26-5	Toluene d8	47		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708	50	94		
NAL13041-240	CRHE-DPT0224-033.0-20130329	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7708	50	98		

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NAL13041-241	CRHE-DPT0224-038.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710				
NAL13041-241	CRHE-DPT0224-038.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710				
NAL13041-241	CRHE-DPT0224-038.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710				
NAL13041-241	CRHE-DPT0224-038.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710				
NAL13041-241	CRHE-DPT0224-038.0-20130329	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710				
NAL13041-241	CRHE-DPT0224-038.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710				
NAL13041-241	CRHE-DPT0224-038.0-20130329	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710	50	104		
NAL13041-241	CRHE-DPT0224-038.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710	50	108		
NAL13041-241	CRHE-DPT0224-038.0-20130329	SUR	2037-26-5	Toluene d8	49		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710	50	98		
NAL13041-241	CRHE-DPT0224-038.0-20130329	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7710	50	96		

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NAL13041-242	CRHE-DPT0224-043.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711				
NAL13041-242	CRHE-DPT0224-043.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711				
NAL13041-242	CRHE-DPT0224-043.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711				
NAL13041-242	CRHE-DPT0224-043.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711				
NAL13041-242	CRHE-DPT0224-043.0-20130329	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711				
NAL13041-242	CRHE-DPT0224-043.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711				
NAL13041-242	CRHE-DPT0224-043.0-20130329	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711	50	120		
NAL13041-242	CRHE-DPT0224-043.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	64		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711	50	128		
NAL13041-242	CRHE-DPT0224-043.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711	50	96		
NAL13041-242	CRHE-DPT0224-043.0-20130329	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7711	50	98		

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NAL13041-243	CRHE-DPT0224-058.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699				
NAL13041-243	CRHE-DPT0224-058.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699				
NAL13041-243	CRHE-DPT0224-058.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699				
NAL13041-243	CRHE-DPT0224-058.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699				
NAL13041-243	CRHE-DPT0224-058.0-20130329	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699				
NAL13041-243	CRHE-DPT0224-058.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699				
NAL13041-243	CRHE-DPT0224-058.0-20130329	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699	50	92		
NAL13041-243	CRHE-DPT0224-058.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699	50	98		
NAL13041-243	CRHE-DPT0224-058.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699	50	96		
NAL13041-243	CRHE-DPT0224-058.0-20130329	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7699	50	94		

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NAL13041-251	CRHE-DPT0225-058.0-20130329	TRG	75-01-4	Vinyl Chloride	2.6		ug/L	1.0	0.13	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702				
NAL13041-251	CRHE-DPT0225-058.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702				
NAL13041-251	CRHE-DPT0225-058.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene	1.7		ug/L	1.0	0.28	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702				
NAL13041-251	CRHE-DPT0225-058.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene	14		ug/L	1.0	0.20	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702				
NAL13041-251	CRHE-DPT0225-058.0-20130329	TRG	79-01-6	Trichloroethene	16		ug/L	1.0	0.22	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702				
NAL13041-251	CRHE-DPT0225-058.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702				
NAL13041-251	CRHE-DPT0225-058.0-20130329	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702	50	114		
NAL13041-251	CRHE-DPT0225-058.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702	50	120		
NAL13041-251	CRHE-DPT0225-058.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702	50	96		
NAL13041-251	CRHE-DPT0225-058.0-20130329	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7702	50	98		

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P032913CCVB	P032913CCVB	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	94		
P032913CCVB	P032913CCVB	TRG	75-35-4	1,1-Dichloroethene	44		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	88		
P032913CCVB	P032913CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	90		
P032913CCVB	P032913CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	45		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	90		
P032913CCVB	P032913CCVB	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	96		
P032913CCVB	P032913CCVB	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	98		
P032913CCVB	P032913CCVB	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	104		
P032913CCVB	P032913CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	108		
P032913CCVB	P032913CCVB	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	102		
P032913CCVB	P032913CCVB	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7696	50	104		

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P032913MBKA	P032913MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697				
P032913MBKA	P032913MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697				
P032913MBKA	P032913MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697				
P032913MBKA	P032913MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697				
P032913MBKA	P032913MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697				
P032913MBKA	P032913MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697				
P032913MBKA	P032913MBKA	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697	50	100		
P032913MBKA	P032913MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697	50	110		
P032913MBKA	P032913MBKA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697	50	96		
P032913MBKA	P032913MBKA	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7697	50	100		

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P032913CCVD	P032913CCVD	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	96		
P032913CCVD	P032913CCVD	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	96		
P032913CCVD	P032913CCVD	TRG	156-60-5	Trans-1,2-Dichloroethene	42		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	84		
P032913CCVD	P032913CCVD	TRG	156-59-2	Cis-1,2-Dichloroethene	46		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	92		
P032913CCVD	P032913CCVD	TRG	79-01-6	Trichloroethene	60		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	120		
P032913CCVD	P032913CCVD	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	102		
P032913CCVD	P032913CCVD	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	96		
P032913CCVD	P032913CCVD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	96		
P032913CCVD	P032913CCVD	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	96		
P032913CCVD	P032913CCVD	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	3/29/2013	3/29/2013	WQ	1	-	5.0	NA	SW8260B	NALP7713	50	104		

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P032913MBKB	P032913MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718				
P032913MBKB	P032913MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718				
P032913MBKB	P032913MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718				
P032913MBKB	P032913MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718				
P032913MBKB	P032913MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718				
P032913MBKB	P032913MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718				
P032913MBKB	P032913MBKB	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718	50	116		
P032913MBKB	P032913MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718	50	124		
P032913MBKB	P032913MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718	50	96		
P032913MBKB	P032913MBKB	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7718	50	100		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P032913ALCS	P032913ALCS	TRG	75-01-4	Vinyl Chloride	40		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	80		
P032913ALCS	P032913ALCS	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	86		
P032913ALCS	P032913ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	38		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	76		
P032913ALCS	P032913ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	40		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	80		
P032913ALCS	P032913ALCS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	102		
P032913ALCS	P032913ALCS	TRG	127-18-4	Tetrachloroethene	47		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	94		
P032913ALCS	P032913ALCS	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	96		
P032913ALCS	P032913ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	98		
P032913ALCS	P032913ALCS	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	94		
P032913ALCS	P032913ALCS	SUR	460-00-4	Bromofluorobenzene	53		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7714	50	106		

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P032913ALCD	P032913ALCD	TRG	75-01-4	Vinyl Chloride	50		ug/L	1.0	0.13	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	100	22	
P032913ALCD	P032913ALCD	TRG	75-35-4	1,1-Dichloroethene	56		ug/L	1.0	0.18	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	112	26	
P032913ALCD	P032913ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	102	29	
P032913ALCD	P032913ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	102	24	
P032913ALCD	P032913ALCD	TRG	79-01-6	Trichloroethene	57		ug/L	1.0	0.22	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	114	11	
P032913ALCD	P032913ALCD	TRG	127-18-4	Tetrachloroethene	55		ug/L	1.0	0.16	NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	110	16	
P032913ALCD	P032913ALCD	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	108	12	
P032913ALCD	P032913ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	116	17	
P032913ALCD	P032913ALCD	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	100	6	
P032913ALCD	P032913ALCD	SUR	460-00-4	Bromofluorobenzene	54		ug/L			NA	3/29/2013	3/29/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7715	50	108	2	

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NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	TRG	75-01-4	Vinyl Chloride	50		ug/L	1.0	0.13	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	100		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	TRG	75-35-4	1,1-Dichloroethene	54		ug/L	1.0	0.18	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	108		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	TRG	156-60-5	Trans-1,2-Dichloroethene	49		ug/L	1.0	0.28	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	98		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	100		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	TRG	79-01-6	Trichloroethene	55		ug/L	1.0	0.22	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	110		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	102		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	106		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	112		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	102		
NAL13041-241MS	CRHE-DPT0224-038.0-20130329MS	SUR	460-00-4	Bromofluorobenzene	55		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7716	50	110		

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NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	TRG	75-01-4	Vinyl Chloride	40		ug/L	1.0	0.13	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	80	22	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	80	30	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	36		ug/L	1.0	0.28	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	72	31	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	39		ug/L	1.0	0.20	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	78	25	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	102	8	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	TRG	127-18-4	Tetrachloroethene	46		ug/L	1.0	0.16	3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	92	10	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	94	12	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	96	15	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	96	6	
NAL13041-241MSD	CRHE-DPT0224-038.0-20130329MSD	SUR	460-00-4	Bromofluorobenzene	53		ug/L			3/29/2013	3/29/2013	3/29/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7717	50	106	4	

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NAL13041-222	CRHE-DPT0222-028.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750				
NAL13041-222	CRHE-DPT0222-028.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750				
NAL13041-222	CRHE-DPT0222-028.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750				
NAL13041-222	CRHE-DPT0222-028.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750				
NAL13041-222	CRHE-DPT0222-028.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750				
NAL13041-222	CRHE-DPT0222-028.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750				
NAL13041-222	CRHE-DPT0222-028.0-20130328	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750	50	100		
NAL13041-222	CRHE-DPT0222-028.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750	50	112		
NAL13041-222	CRHE-DPT0222-028.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750	50	96		
NAL13041-222	CRHE-DPT0222-028.0-20130328	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7750	50	92		

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NAL13041-223	CRHE-DPT0222-033.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751				
NAL13041-223	CRHE-DPT0222-033.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751				
NAL13041-223	CRHE-DPT0222-033.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751				
NAL13041-223	CRHE-DPT0222-033.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751				
NAL13041-223	CRHE-DPT0222-033.0-20130328	TRG	79-01-6	Trichloroethene	0.71	I	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751				
NAL13041-223	CRHE-DPT0222-033.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751				
NAL13041-223	CRHE-DPT0222-033.0-20130328	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751	50	108		
NAL13041-223	CRHE-DPT0222-033.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751	50	108		
NAL13041-223	CRHE-DPT0222-033.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751	50	96		
NAL13041-223	CRHE-DPT0222-033.0-20130328	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7751	50	94		

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NAL13041-224	CRHE-DPT0222-038.0-20130328	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752				
NAL13041-224	CRHE-DPT0222-038.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752				
NAL13041-224	CRHE-DPT0222-038.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752				
NAL13041-224	CRHE-DPT0222-038.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752				
NAL13041-224	CRHE-DPT0222-038.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752				
NAL13041-224	CRHE-DPT0222-038.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752				
NAL13041-224	CRHE-DPT0222-038.0-20130328	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752	50	116		
NAL13041-224	CRHE-DPT0222-038.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752	50	116		
NAL13041-224	CRHE-DPT0222-038.0-20130328	SUR	2037-26-5	Toluene d8	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752	50	94		
NAL13041-224	CRHE-DPT0222-038.0-20130328	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7752	50	94		

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NAL13041-225	CRHE-DPT0222-043.0-20130328	TRG	75-01-4	Vinyl Chloride	32	I	ug/L	50	6.5	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753				
NAL13041-225	CRHE-DPT0222-043.0-20130328	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753				
NAL13041-225	CRHE-DPT0222-043.0-20130328	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753				
NAL13041-225	CRHE-DPT0222-043.0-20130328	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	50	10	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753				
NAL13041-225	CRHE-DPT0222-043.0-20130328	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753				
NAL13041-225	CRHE-DPT0222-043.0-20130328	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753				
NAL13041-225	CRHE-DPT0222-043.0-20130328	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753	50	116		
NAL13041-225	CRHE-DPT0222-043.0-20130328	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753	50	118		
NAL13041-225	CRHE-DPT0222-043.0-20130328	SUR	2037-26-5	Toluene d8	48		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753	50	96		
NAL13041-225	CRHE-DPT0222-043.0-20130328	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7753	50	94		

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NAL13041-246	CRHE-DPT0225-023.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	50	6.5	3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554				
NAL13041-246	CRHE-DPT0225-023.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554				
NAL13041-246	CRHE-DPT0225-023.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	50	14	3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554				
NAL13041-246	CRHE-DPT0225-023.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	50	10	3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554				
NAL13041-246	CRHE-DPT0225-023.0-20130329	TRG	79-01-6	Trichloroethene	53		ug/L	50	11	3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554				
NAL13041-246	CRHE-DPT0225-023.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554				
NAL13041-246	CRHE-DPT0225-023.0-20130329	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554	50	118		
NAL13041-246	CRHE-DPT0225-023.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554	50	118		
NAL13041-246	CRHE-DPT0225-023.0-20130329	SUR	2037-26-5	Toluene d8	47		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554	50	94		
NAL13041-246	CRHE-DPT0225-023.0-20130329	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7554	50	98		

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NAL13041-247	CRHE-DPT0225-028.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-247	CRHE-DPT0225-028.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-247	CRHE-DPT0225-028.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-247	CRHE-DPT0225-028.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-247	CRHE-DPT0225-028.0-20130329	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-247	CRHE-DPT0225-028.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555				
NAL13041-247	CRHE-DPT0225-028.0-20130329	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	118		
NAL13041-247	CRHE-DPT0225-028.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	120		
NAL13041-247	CRHE-DPT0225-028.0-20130329	SUR	2037-26-5	Toluene d8	47		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	94		
NAL13041-247	CRHE-DPT0225-028.0-20130329	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7555	50	94		

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NAL13041-248	CRHE-DPT0225-033.0-20130329	TRG	75-01-4	Vinyl Chloride	210		ug/L	100	13	3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772				
NAL13041-248	CRHE-DPT0225-033.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772				
NAL13041-248	CRHE-DPT0225-033.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene	87	I	ug/L	100	28	3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772				
NAL13041-248	CRHE-DPT0225-033.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene	980		ug/L	100	20	3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772				
NAL13041-248	CRHE-DPT0225-033.0-20130329	TRG	79-01-6	Trichloroethene	57	I	ug/L	100	22	3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772				
NAL13041-248	CRHE-DPT0225-033.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772				
NAL13041-248	CRHE-DPT0225-033.0-20130329	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772	50	108		
NAL13041-248	CRHE-DPT0225-033.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772	50	106		
NAL13041-248	CRHE-DPT0225-033.0-20130329	SUR	2037-26-5	Toluene d8	47		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772	50	94		
NAL13041-248	CRHE-DPT0225-033.0-20130329	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7772	50	92		

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NAL13041-249	CRHE-DPT0225-038.0-20130329	TRG	75-01-4	Vinyl Chloride	4400		ug/L	1000	130	3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773				
NAL13041-249	CRHE-DPT0225-038.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1000	180	3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773				
NAL13041-249	CRHE-DPT0225-038.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene	800	I	ug/L	1000	280	3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773				
NAL13041-249	CRHE-DPT0225-038.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene	40000		ug/L	1000	200	3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773				
NAL13041-249	CRHE-DPT0225-038.0-20130329	TRG	79-01-6	Trichloroethene	37000		ug/L	1000	220	3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773				
NAL13041-249	CRHE-DPT0225-038.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1000	160	3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773				
NAL13041-249	CRHE-DPT0225-038.0-20130329	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773	50	118		
NAL13041-249	CRHE-DPT0225-038.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773	50	116		
NAL13041-249	CRHE-DPT0225-038.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773	50	96		
NAL13041-249	CRHE-DPT0225-038.0-20130329	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7773	50	92		

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NAL13041-250	CRHE-DPT0225-043.0-20130329	TRG	75-01-4	Vinyl Chloride	620		ug/L	250	33	3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774				
NAL13041-250	CRHE-DPT0225-043.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774				
NAL13041-250	CRHE-DPT0225-043.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70	3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774				
NAL13041-250	CRHE-DPT0225-043.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene	4400		ug/L	250	50	3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774				
NAL13041-250	CRHE-DPT0225-043.0-20130329	TRG	79-01-6	Trichloroethene	1800		ug/L	250	55	3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774				
NAL13041-250	CRHE-DPT0225-043.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774				
NAL13041-250	CRHE-DPT0225-043.0-20130329	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774	50	112		
NAL13041-250	CRHE-DPT0225-043.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774	50	112		
NAL13041-250	CRHE-DPT0225-043.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774	50	96		
NAL13041-250	CRHE-DPT0225-043.0-20130329	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7774	50	98		

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NAL13041-252	CRHE-DPT0225-068.0-20130329	TRG	75-01-4	Vinyl Chloride	0.57	I	ug/L	1.0	0.13	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775				
NAL13041-252	CRHE-DPT0225-068.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775				
NAL13041-252	CRHE-DPT0225-068.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775				
NAL13041-252	CRHE-DPT0225-068.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene	8.4		ug/L	1.0	0.20	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775				
NAL13041-252	CRHE-DPT0225-068.0-20130329	TRG	79-01-6	Trichloroethene	12		ug/L	1.0	0.22	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775				
NAL13041-252	CRHE-DPT0225-068.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775				
NAL13041-252	CRHE-DPT0225-068.0-20130329	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775	50	114		
NAL13041-252	CRHE-DPT0225-068.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775	50	114		
NAL13041-252	CRHE-DPT0225-068.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775	50	96		
NAL13041-252	CRHE-DPT0225-068.0-20130329	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/29/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7775	50	96		

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NAL13041-157	CRHE-DPT0213-068.0-20130326	TRG	75-01-4	Vinyl Chloride	1.6		ug/L	1.0	0.13	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776				
NAL13041-157	CRHE-DPT0213-068.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776				
NAL13041-157	CRHE-DPT0213-068.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776				
NAL13041-157	CRHE-DPT0213-068.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	37		ug/L	1.0	0.20	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776				
NAL13041-157	CRHE-DPT0213-068.0-20130326	TRG	79-01-6	Trichloroethene	8.5		ug/L	1.0	0.22	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776				
NAL13041-157	CRHE-DPT0213-068.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776				
NAL13041-157	CRHE-DPT0213-068.0-20130326	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776	50	118		
NAL13041-157	CRHE-DPT0213-068.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776	50	116		
NAL13041-157	CRHE-DPT0213-068.0-20130326	SUR	2037-26-5	Toluene d8	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776	50	96		
NAL13041-157	CRHE-DPT0213-068.0-20130326	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7776	50	98		

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NAL13041-167	CRHE-DPT0216-018.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778				
NAL13041-167	CRHE-DPT0216-018.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778				
NAL13041-167	CRHE-DPT0216-018.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778				
NAL13041-167	CRHE-DPT0216-018.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778				
NAL13041-167	CRHE-DPT0216-018.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778				
NAL13041-167	CRHE-DPT0216-018.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778				
NAL13041-167	CRHE-DPT0216-018.0-20130326	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778	50	92		
NAL13041-167	CRHE-DPT0216-018.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778	50	86		
NAL13041-167	CRHE-DPT0216-018.0-20130326	SUR	2037-26-5	Toluene d8	49		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778	50	98		
NAL13041-167	CRHE-DPT0216-018.0-20130326	SUR	460-00-4	Bromofluorobenzene	45		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7778	50	90		

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NAL13041-168	CRHE-DPT0216-023.0-20130326	TRG	75-01-4	Vinyl Chloride	110		ug/L	10	1.3	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779				
NAL13041-168	CRHE-DPT0216-023.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779				
NAL13041-168	CRHE-DPT0216-023.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779				
NAL13041-168	CRHE-DPT0216-023.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	160		ug/L	10	2.0	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779				
NAL13041-168	CRHE-DPT0216-023.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779				
NAL13041-168	CRHE-DPT0216-023.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779				
NAL13041-168	CRHE-DPT0216-023.0-20130326	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779	50	114		
NAL13041-168	CRHE-DPT0216-023.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779	50	112		
NAL13041-168	CRHE-DPT0216-023.0-20130326	SUR	2037-26-5	Toluene d8	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779	50	96		
NAL13041-168	CRHE-DPT0216-023.0-20130326	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7779	50	96		

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NAL13041-169	CRHE-DPT0216-028.0-20130326	TRG	75-01-4	Vinyl Chloride		U	ug/L	10	1.3	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764				
NAL13041-169	CRHE-DPT0216-028.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764				
NAL13041-169	CRHE-DPT0216-028.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764				
NAL13041-169	CRHE-DPT0216-028.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764				
NAL13041-169	CRHE-DPT0216-028.0-20130326	TRG	79-01-6	Trichloroethene	240		ug/L	10	2.2	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764				
NAL13041-169	CRHE-DPT0216-028.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764				
NAL13041-169	CRHE-DPT0216-028.0-20130326	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764	50	116		
NAL13041-169	CRHE-DPT0216-028.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764	50	118		
NAL13041-169	CRHE-DPT0216-028.0-20130326	SUR	2037-26-5	Toluene d8	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764	50	96		
NAL13041-169	CRHE-DPT0216-028.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7764	50	94		

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NAL13041-172	CRHE-DPT0216-043.0-20130326	TRG	75-01-4	Vinyl Chloride	1800		ug/L	250	32.50	3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765				
NAL13041-172	CRHE-DPT0216-043.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45.00	3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765				
NAL13041-172	CRHE-DPT0216-043.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	250	70.00	3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765				
NAL13041-172	CRHE-DPT0216-043.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	15000		ug/L	250	50.00	3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765				
NAL13041-172	CRHE-DPT0216-043.0-20130326	TRG	79-01-6	Trichloroethene	4400		ug/L	250	55.00	3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765				
NAL13041-172	CRHE-DPT0216-043.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40.00	3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765				
NAL13041-172	CRHE-DPT0216-043.0-20130326	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765	50	118		
NAL13041-172	CRHE-DPT0216-043.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765	50	122		
NAL13041-172	CRHE-DPT0216-043.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765	50	94		
NAL13041-172	CRHE-DPT0216-043.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7765	50	92		

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NAL13041-173	CRHE-DPT0216-058.0-20130326	TRG	75-01-4	Vinyl Chloride	6.3		ug/L	1.0	0.13	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766				
NAL13041-173	CRHE-DPT0216-058.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766				
NAL13041-173	CRHE-DPT0216-058.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	1.6		ug/L	1.0	0.28	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766				
NAL13041-173	CRHE-DPT0216-058.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	110		ug/L	1.0	0.20	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766				
NAL13041-173	CRHE-DPT0216-058.0-20130326	TRG	79-01-6	Trichloroethene	62		ug/L	1.0	0.22	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766				
NAL13041-173	CRHE-DPT0216-058.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766				
NAL13041-173	CRHE-DPT0216-058.0-20130326	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766	50	118		
NAL13041-173	CRHE-DPT0216-058.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766	50	120		
NAL13041-173	CRHE-DPT0216-058.0-20130326	SUR	2037-26-5	Toluene d8	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766	50	96		
NAL13041-173	CRHE-DPT0216-058.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7766	50	94		

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NAL13041-176	CRHE-DPT0217-023.0-20130326	TRG	75-01-4	Vinyl Chloride	1200		ug/L	1000	130	3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767				
NAL13041-176	CRHE-DPT0217-023.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1000	180	3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767				
NAL13041-176	CRHE-DPT0217-023.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	1600		ug/L	1000	280	3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767				
NAL13041-176	CRHE-DPT0217-023.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	68000		ug/L	1000	200	3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767				
NAL13041-176	CRHE-DPT0217-023.0-20130326	TRG	79-01-6	Trichloroethene	7700		ug/L	1000	220	3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767				
NAL13041-176	CRHE-DPT0217-023.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1000	160	3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767				
NAL13041-176	CRHE-DPT0217-023.0-20130326	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767	50	116		
NAL13041-176	CRHE-DPT0217-023.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767	50	116		
NAL13041-176	CRHE-DPT0217-023.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767	50	94		
NAL13041-176	CRHE-DPT0217-023.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1000	5.0	5.0	NA	SW8260B	NALP7767	50	92		

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NAL13041-179	CRHE-DPT0217-038.0-20130326	TRG	75-01-4	Vinyl Chloride	2100		ug/L	100	13	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780				
NAL13041-179	CRHE-DPT0217-038.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780				
NAL13041-179	CRHE-DPT0217-038.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780				
NAL13041-179	CRHE-DPT0217-038.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	2900		ug/L	100	20	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780				
NAL13041-179	CRHE-DPT0217-038.0-20130326	TRG	79-01-6	Trichloroethene	85	I	ug/L	100	22	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780				
NAL13041-179	CRHE-DPT0217-038.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780				
NAL13041-179	CRHE-DPT0217-038.0-20130326	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780	50	116		
NAL13041-179	CRHE-DPT0217-038.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780	50	120		
NAL13041-179	CRHE-DPT0217-038.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780	50	94		
NAL13041-179	CRHE-DPT0217-038.0-20130326	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7780	50	92		

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NAL13041-180	CRHE-DPT0217-043.0-20130326	TRG	75-01-4	Vinyl Chloride	2.4		ug/L	1.0	0.13	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781				
NAL13041-180	CRHE-DPT0217-043.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781				
NAL13041-180	CRHE-DPT0217-043.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781				
NAL13041-180	CRHE-DPT0217-043.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	38		ug/L	1.0	0.20	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781				
NAL13041-180	CRHE-DPT0217-043.0-20130326	TRG	79-01-6	Trichloroethene	23		ug/L	1.0	0.22	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781				
NAL13041-180	CRHE-DPT0217-043.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781				
NAL13041-180	CRHE-DPT0217-043.0-20130326	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781	50	116		
NAL13041-180	CRHE-DPT0217-043.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781	50	118		
NAL13041-180	CRHE-DPT0217-043.0-20130326	SUR	2037-26-5	Toluene d8	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781	50	96		
NAL13041-180	CRHE-DPT0217-043.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7781	50	94		

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P033013CCVA	P033013CCVA	TRG	75-01-4	Vinyl Chloride	47		ug/L	1.0	0.13	NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	94		
P033013CCVA	P033013CCVA	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	80		
P033013CCVA	P033013CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	44		ug/L	1.0	0.28	NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	88		
P033013CCVA	P033013CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	45		ug/L	1.0	0.20	NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	90		
P033013CCVA	P033013CCVA	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	96		
P033013CCVA	P033013CCVA	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	98		
P033013CCVA	P033013CCVA	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	92		
P033013CCVA	P033013CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	86		
P033013CCVA	P033013CCVA	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	98		
P033013CCVA	P033013CCVA	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	3/30/2013	3/30/2013	WQ	1	-	5.0	NA	SW8260B	NALP7744	50	100		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P033013MBKA	P033013MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748				
P033013MBKA	P033013MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748				
P033013MBKA	P033013MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748				
P033013MBKA	P033013MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748				
P033013MBKA	P033013MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748				
P033013MBKA	P033013MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748				
P033013MBKA	P033013MBKA	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748	50	116		
P033013MBKA	P033013MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748	50	118		
P033013MBKA	P033013MBKA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748	50	96		
P033013MBKA	P033013MBKA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7748	50	94		

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P033113CCVB	P033113CCVB	TRG	75-01-4	Vinyl Chloride	50		ug/L	1.0	0.13	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	100		
P033113CCVB	P033113CCVB	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	92		
P033113CCVB	P033113CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	92		
P033113CCVB	P033113CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	48		ug/L	1.0	0.20	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	96		
P033113CCVB	P033113CCVB	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	94		
P033113CCVB	P033113CCVB	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	100		
P033113CCVB	P033113CCVB	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	98		
P033113CCVB	P033113CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	90		
P033113CCVB	P033113CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	98		
P033113CCVB	P033113CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7770	50	98		

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P033113MBKA	P033113MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771				
P033113MBKA	P033113MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771				
P033113MBKA	P033113MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771				
P033113MBKA	P033113MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771				
P033113MBKA	P033113MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771				
P033113MBKA	P033113MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771				
P033113MBKA	P033113MBKA	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771	50	112		
P033113MBKA	P033113MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771	50	112		
P033113MBKA	P033113MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771	50	94		
P033113MBKA	P033113MBKA	SUR	460-00-4	Bromofluorobenzene	46		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7771	50	92		

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P033013ALCS	P033013ALCS	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	102		
P033013ALCS	P033013ALCS	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	98		
P033013ALCS	P033013ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	102		
P033013ALCS	P033013ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	104		
P033013ALCS	P033013ALCS	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	98		
P033013ALCS	P033013ALCS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	102		
P033013ALCS	P033013ALCS	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	102		
P033013ALCS	P033013ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	94		
P033013ALCS	P033013ALCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	102		
P033013ALCS	P033013ALCS	SUR	460-00-4	Bromofluorobenzene	51		ug/L			NA	3/30/2013	3/30/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7743	50	102		

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NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	98		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	98		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	104		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	106		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	100		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	102		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	102		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	94		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	SUR	2037-26-5	Toluene d8	51		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	102		
NAL13041-222MS	CRHE-DPT0222-028.0-20130328MS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7746	50	100		

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NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	TRG	75-01-4	Vinyl Chloride	43		ug/L	1.0	0.13	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	86	13	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	TRG	75-35-4	1,1-Dichloroethene	39		ug/L	1.0	0.18	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	78	23	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	42		ug/L	1.0	0.28	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	84	21	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	43		ug/L	1.0	0.20	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	86	21	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	100	0	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	102	0	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	90	13	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	86	9	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	SUR	2037-26-5	Toluene d8	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	100	2	
NAL13041-222MSD	CRHE-DPT0222-028.0-20130328MSD	SUR	460-00-4	Bromofluorobenzene	50		ug/L			3/28/2013	3/30/2013	3/30/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7747	50	100	0	

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NAL13041-164	CRHE-DPT0215-043.0-20130326	TRG	75-01-4	Vinyl Chloride	67		ug/L	2.0	0.26	3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790				
NAL13041-164	CRHE-DPT0215-043.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	2.0	0.36	3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790				
NAL13041-164	CRHE-DPT0215-043.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	3.7		ug/L	2.0	0.56	3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790				
NAL13041-164	CRHE-DPT0215-043.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	230		ug/L	2.0	0.40	3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790				
NAL13041-164	CRHE-DPT0215-043.0-20130326	TRG	79-01-6	Trichloroethene		U	ug/L	2.0	0.44	3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790				
NAL13041-164	CRHE-DPT0215-043.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	2.0	0.32	3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790				
NAL13041-164	CRHE-DPT0215-043.0-20130326	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790	50	118		
NAL13041-164	CRHE-DPT0215-043.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790	50	120		
NAL13041-164	CRHE-DPT0215-043.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790	50	94		
NAL13041-164	CRHE-DPT0215-043.0-20130326	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	2	5.0	5.0	NA	SW8260B	NALP7790	50	96		

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NAL13041-181	CRHE-DPT0217-058.0-20130326	TRG	75-01-4	Vinyl Chloride	260		ug/L	100	13	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791				
NAL13041-181	CRHE-DPT0217-058.0-20130326	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791				
NAL13041-181	CRHE-DPT0217-058.0-20130326	TRG	156-60-5	Trans-1,2-Dichloroethene	55	I	ug/L	100	28	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791				
NAL13041-181	CRHE-DPT0217-058.0-20130326	TRG	156-59-2	Cis-1,2-Dichloroethene	6000		ug/L	100	20	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791				
NAL13041-181	CRHE-DPT0217-058.0-20130326	TRG	79-01-6	Trichloroethene	1400		ug/L	100	22	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791				
NAL13041-181	CRHE-DPT0217-058.0-20130326	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791				
NAL13041-181	CRHE-DPT0217-058.0-20130326	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791	50	116		
NAL13041-181	CRHE-DPT0217-058.0-20130326	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791	50	114		
NAL13041-181	CRHE-DPT0217-058.0-20130326	SUR	2037-26-5	Toluene d8	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791	50	94		
NAL13041-181	CRHE-DPT0217-058.0-20130326	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/26/2013	3/31/2013	3/31/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7791	50	94		

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NAL13041-195	CRHE-DPT0219-033.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792				
NAL13041-195	CRHE-DPT0219-033.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792				
NAL13041-195	CRHE-DPT0219-033.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792				
NAL13041-195	CRHE-DPT0219-033.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792				
NAL13041-195	CRHE-DPT0219-033.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792				
NAL13041-195	CRHE-DPT0219-033.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792				
NAL13041-195	CRHE-DPT0219-033.0-20130327	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792	50	106		
NAL13041-195	CRHE-DPT0219-033.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792	50	104		
NAL13041-195	CRHE-DPT0219-033.0-20130327	SUR	2037-26-5	Toluene d8	49		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792	50	98		
NAL13041-195	CRHE-DPT0219-033.0-20130327	SUR	460-00-4	Bromofluorobenzene	47		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7792	50	94		

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NAL13041-201	CRHE-DPT0220-023.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793				
NAL13041-201	CRHE-DPT0220-023.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793				
NAL13041-201	CRHE-DPT0220-023.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793				
NAL13041-201	CRHE-DPT0220-023.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793				
NAL13041-201	CRHE-DPT0220-023.0-20130327	TRG	79-01-6	Trichloroethene	0.85	I	ug/L	1.0	0.22	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793				
NAL13041-201	CRHE-DPT0220-023.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793				
NAL13041-201	CRHE-DPT0220-023.0-20130327	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793	50	120		
NAL13041-201	CRHE-DPT0220-023.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793	50	118		
NAL13041-201	CRHE-DPT0220-023.0-20130327	SUR	2037-26-5	Toluene d8	47		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793	50	94		
NAL13041-201	CRHE-DPT0220-023.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7793	50	96		

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NAL13041-203	CRHE-DPT0220-033.0-20130327	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794				
NAL13041-203	CRHE-DPT0220-033.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794				
NAL13041-203	CRHE-DPT0220-033.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794				
NAL13041-203	CRHE-DPT0220-033.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	2.1		ug/L	1.0	0.20	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794				
NAL13041-203	CRHE-DPT0220-033.0-20130327	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794				
NAL13041-203	CRHE-DPT0220-033.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794				
NAL13041-203	CRHE-DPT0220-033.0-20130327	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794	50	120		
NAL13041-203	CRHE-DPT0220-033.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794	50	122		
NAL13041-203	CRHE-DPT0220-033.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794	50	96		
NAL13041-203	CRHE-DPT0220-033.0-20130327	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7794	50	96		

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NAL13041-205	CRHE-DPT0220-043.0-20130327	TRG	75-01-4	Vinyl Chloride	1000		ug/L	50	6.5	3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795				
NAL13041-205	CRHE-DPT0220-043.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795				
NAL13041-205	CRHE-DPT0220-043.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene	100		ug/L	50	14	3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795				
NAL13041-205	CRHE-DPT0220-043.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	4300		ug/L	50	10	3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795				
NAL13041-205	CRHE-DPT0220-043.0-20130327	TRG	79-01-6	Trichloroethene	1400		ug/L	50	11	3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795				
NAL13041-205	CRHE-DPT0220-043.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795				
NAL13041-205	CRHE-DPT0220-043.0-20130327	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795	50	102		
NAL13041-205	CRHE-DPT0220-043.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795	50	102		
NAL13041-205	CRHE-DPT0220-043.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795	50	96		
NAL13041-205	CRHE-DPT0220-043.0-20130327	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7795	50	92		

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NAL13041-207	CRHE-DPT0220-058.0-20130327	TRG	75-01-4	Vinyl Chloride	2.1		ug/L	1.0	0.13	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796				
NAL13041-207	CRHE-DPT0220-058.0-20130327	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796				
NAL13041-207	CRHE-DPT0220-058.0-20130327	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796				
NAL13041-207	CRHE-DPT0220-058.0-20130327	TRG	156-59-2	Cis-1,2-Dichloroethene	23		ug/L	1.0	0.20	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796				
NAL13041-207	CRHE-DPT0220-058.0-20130327	TRG	79-01-6	Trichloroethene	12		ug/L	1.0	0.22	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796				
NAL13041-207	CRHE-DPT0220-058.0-20130327	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796				
NAL13041-207	CRHE-DPT0220-058.0-20130327	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796	50	98		
NAL13041-207	CRHE-DPT0220-058.0-20130327	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796	50	98		
NAL13041-207	CRHE-DPT0220-058.0-20130327	SUR	2037-26-5	Toluene d8	48		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796	50	96		
NAL13041-207	CRHE-DPT0220-058.0-20130327	SUR	460-00-4	Bromofluorobenzene	46		ug/L			3/27/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7796	50	92		

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NAL13041-244	CRHE-DPT0225-010.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797				
NAL13041-244	CRHE-DPT0225-010.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797				
NAL13041-244	CRHE-DPT0225-010.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797				
NAL13041-244	CRHE-DPT0225-010.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797				
NAL13041-244	CRHE-DPT0225-010.0-20130329	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797				
NAL13041-244	CRHE-DPT0225-010.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797				
NAL13041-244	CRHE-DPT0225-010.0-20130329	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797	50	120		
NAL13041-244	CRHE-DPT0225-010.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797	50	118		
NAL13041-244	CRHE-DPT0225-010.0-20130329	SUR	2037-26-5	Toluene d8	47		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797	50	94		
NAL13041-244	CRHE-DPT0225-010.0-20130329	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7797	50	96		

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P033113CCVB	P033113CCVB	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	98		
P033113CCVB	P033113CCVB	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	94		
P033113CCVB	P033113CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	48		ug/L	1.0	0.28	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	96		
P033113CCVB	P033113CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	100		
P033113CCVB	P033113CCVB	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	96		
P033113CCVB	P033113CCVB	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	102		
P033113CCVB	P033113CCVB	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	102		
P033113CCVB	P033113CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	98		
P033113CCVB	P033113CCVB	SUR	2037-26-5	Toluene d8	51		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	102		
P033113CCVB	P033113CCVB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/31/2013	3/31/2013	WQ	1	-	5.0	NA	SW8260B	NALP7782	50	96		

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P033113MBKB	P033113MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788				
P033113MBKB	P033113MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788				
P033113MBKB	P033113MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788				
P033113MBKB	P033113MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788				
P033113MBKB	P033113MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788				
P033113MBKB	P033113MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788				
P033113MBKB	P033113MBKB	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788	50	114		
P033113MBKB	P033113MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788	50	116		
P033113MBKB	P033113MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788	50	94		
P033113MBKB	P033113MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7788	50	94		

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P033113ALCS	P033113ALCS	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	96		
P033113ALCS	P033113ALCS	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	82		
P033113ALCS	P033113ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	44		ug/L	1.0	0.28	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	88		
P033113ALCS	P033113ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	94		
P033113ALCS	P033113ALCS	TRG	79-01-6	Trichloroethene	46		ug/L	1.0	0.22	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	92		
P033113ALCS	P033113ALCS	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	98		
P033113ALCS	P033113ALCS	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	92		
P033113ALCS	P033113ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	90		
P033113ALCS	P033113ALCS	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	100		
P033113ALCS	P033113ALCS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7784	50	96		

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P033113ALCD	P033113ALCD	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	96	0	
P033113ALCD	P033113ALCD	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	86	5	
P033113ALCD	P033113ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	90	2	
P033113ALCD	P033113ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	94	0	
P033113ALCD	P033113ALCD	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	98	6	
P033113ALCD	P033113ALCD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	100	2	
P033113ALCD	P033113ALCD	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	94	2	
P033113ALCD	P033113ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	90	0	
P033113ALCD	P033113ALCD	SUR	2037-26-5	Toluene d8	50		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	100	0	
P033113ALCD	P033113ALCD	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	3/31/2013	3/31/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7785	50	98	2	

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	92		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	84		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	TRG	156-60-5	Trans-1,2-Dichloroethene	45		ug/L	1.0	0.28	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	90		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	TRG	156-59-2	Cis-1,2-Dichloroethene	45		ug/L	1.0	0.20	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	90		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	96		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	98		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	92		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	90		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	SUR	2037-26-5	Toluene d8	50		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	100		
NAL13041-195MS	CRHE-DPT0219-033.0-20130327MS	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7786	50	98		

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NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	98	6	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	96	13	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	102	13	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	104	14	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	96	0	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	TRG	127-18-4	Tetrachloroethene	48		ug/L	1.0	0.16	3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	96	2	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	102	10	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	100	11	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	SUR	2037-26-5	Toluene d8	51		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	102	2	
NAL13041-195MSD	CRHE-DPT0219-033.0-20130327MSD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/27/2013	3/31/2013	3/31/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7787	50	96	2	

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NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803				
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803				
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803				
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803				
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803				
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803				
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803	50	114		
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803	50	110		
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	SUR	2037-26-5	Toluene d8	48		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803	50	96		
NAL13041-245 RR	CRHE-DPT0225-018.0-20130329	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/29/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7803	50	96		

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NAL13041-253	CRHE-DPT0226-010.0-20130401	TRG	75-01-4	Vinyl Chloride	1.2		ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808				
NAL13041-253	CRHE-DPT0226-010.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808				
NAL13041-253	CRHE-DPT0226-010.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	0.86	I	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808				
NAL13041-253	CRHE-DPT0226-010.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	26		ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808				
NAL13041-253	CRHE-DPT0226-010.0-20130401	TRG	79-01-6	Trichloroethene	1.9		ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808				
NAL13041-253	CRHE-DPT0226-010.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808				
NAL13041-253	CRHE-DPT0226-010.0-20130401	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808	50	116		
NAL13041-253	CRHE-DPT0226-010.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808	50	114		
NAL13041-253	CRHE-DPT0226-010.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808	50	94		
NAL13041-253	CRHE-DPT0226-010.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7808	50	92		

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NAL13041-254	CRHE-DPT0226-018.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809				
NAL13041-254	CRHE-DPT0226-018.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809				
NAL13041-254	CRHE-DPT0226-018.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809				
NAL13041-254	CRHE-DPT0226-018.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809				
NAL13041-254	CRHE-DPT0226-018.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809				
NAL13041-254	CRHE-DPT0226-018.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809				
NAL13041-254	CRHE-DPT0226-018.0-20130401	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809	50	94		
NAL13041-254	CRHE-DPT0226-018.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809	50	106		
NAL13041-254	CRHE-DPT0226-018.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809	50	94		
NAL13041-254	CRHE-DPT0226-018.0-20130401	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7809	50	90		

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NAL13041-255	CRHE-DPT0226-023.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810				
NAL13041-255	CRHE-DPT0226-023.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810				
NAL13041-255	CRHE-DPT0226-023.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810				
NAL13041-255	CRHE-DPT0226-023.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810				
NAL13041-255	CRHE-DPT0226-023.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810				
NAL13041-255	CRHE-DPT0226-023.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810				
NAL13041-255	CRHE-DPT0226-023.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810	50	114		
NAL13041-255	CRHE-DPT0226-023.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810	50	110		
NAL13041-255	CRHE-DPT0226-023.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810	50	94		
NAL13041-255	CRHE-DPT0226-023.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7810	50	94		

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Project Site: NASA, Kennedy Space Center

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NAL13041-256	CRHE-DPT0226-028.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811				
NAL13041-256	CRHE-DPT0226-028.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811				
NAL13041-256	CRHE-DPT0226-028.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811				
NAL13041-256	CRHE-DPT0226-028.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811				
NAL13041-256	CRHE-DPT0226-028.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811				
NAL13041-256	CRHE-DPT0226-028.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811				
NAL13041-256	CRHE-DPT0226-028.0-20130401	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811	50	104		
NAL13041-256	CRHE-DPT0226-028.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811	50	100		
NAL13041-256	CRHE-DPT0226-028.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811	50	96		
NAL13041-256	CRHE-DPT0226-028.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7811	50	92		

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NAL13041-257	CRHE-DPT0226-033.0-20130401	TRG	75-01-4	Vinyl Chloride	2.2		ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812				
NAL13041-257	CRHE-DPT0226-033.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812				
NAL13041-257	CRHE-DPT0226-033.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812				
NAL13041-257	CRHE-DPT0226-033.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	3.6		ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812				
NAL13041-257	CRHE-DPT0226-033.0-20130401	TRG	79-01-6	Trichloroethene	3.3		ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812				
NAL13041-257	CRHE-DPT0226-033.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812				
NAL13041-257	CRHE-DPT0226-033.0-20130401	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812	50	102		
NAL13041-257	CRHE-DPT0226-033.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812	50	100		
NAL13041-257	CRHE-DPT0226-033.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812	50	96		
NAL13041-257	CRHE-DPT0226-033.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7812	50	94		

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NAL13041-258	CRHE-DPT0226-038.0-20130401	TRG	75-01-4	Vinyl Chloride	670		ug/L	100	13	4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818				
NAL13041-258	CRHE-DPT0226-038.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818				
NAL13041-258	CRHE-DPT0226-038.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	170		ug/L	100	28	4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818				
NAL13041-258	CRHE-DPT0226-038.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	4200		ug/L	100	20	4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818				
NAL13041-258	CRHE-DPT0226-038.0-20130401	TRG	79-01-6	Trichloroethene	44	I	ug/L	100	22	4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818				
NAL13041-258	CRHE-DPT0226-038.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818				
NAL13041-258	CRHE-DPT0226-038.0-20130401	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818	50	106		
NAL13041-258	CRHE-DPT0226-038.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818	50	102		
NAL13041-258	CRHE-DPT0226-038.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818	50	94		
NAL13041-258	CRHE-DPT0226-038.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7818	50	94		

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NAL13041-259	CRHE-DPT0226-043.0-20130401	TRG	75-01-4	Vinyl Chloride	480		ug/L	250	33	4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819				
NAL13041-259	CRHE-DPT0226-043.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	250	45	4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819				
NAL13041-259	CRHE-DPT0226-043.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	260		ug/L	250	70	4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819				
NAL13041-259	CRHE-DPT0226-043.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	6900		ug/L	250	50	4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819				
NAL13041-259	CRHE-DPT0226-043.0-20130401	TRG	79-01-6	Trichloroethene	1000		ug/L	250	55	4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819				
NAL13041-259	CRHE-DPT0226-043.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	250	40	4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819				
NAL13041-259	CRHE-DPT0226-043.0-20130401	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819	50	112		
NAL13041-259	CRHE-DPT0226-043.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819	50	110		
NAL13041-259	CRHE-DPT0226-043.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819	50	94		
NAL13041-259	CRHE-DPT0226-043.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	250	5.0	5.0	NA	SW8260B	NALP7819	50	94		

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NAL13041-260	CRHE-DPT0226-058.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806				
NAL13041-260	CRHE-DPT0226-058.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806				
NAL13041-260	CRHE-DPT0226-058.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806				
NAL13041-260	CRHE-DPT0226-058.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806				
NAL13041-260	CRHE-DPT0226-058.0-20130401	TRG	79-01-6	Trichloroethene	0.62	I	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806				
NAL13041-260	CRHE-DPT0226-058.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806				
NAL13041-260	CRHE-DPT0226-058.0-20130401	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806	50	102		
NAL13041-260	CRHE-DPT0226-058.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806	50	102		
NAL13041-260	CRHE-DPT0226-058.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806	50	96		
NAL13041-260	CRHE-DPT0226-058.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7806	50	92		

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NAL13041-261	CRHE-DPT0227-010.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820				
NAL13041-261	CRHE-DPT0227-010.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820				
NAL13041-261	CRHE-DPT0227-010.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820				
NAL13041-261	CRHE-DPT0227-010.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820				
NAL13041-261	CRHE-DPT0227-010.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820				
NAL13041-261	CRHE-DPT0227-010.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820				
NAL13041-261	CRHE-DPT0227-010.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820	50	114		
NAL13041-261	CRHE-DPT0227-010.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820	50	114		
NAL13041-261	CRHE-DPT0227-010.0-20130401	SUR	2037-26-5	Toluene d8	46		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820	50	92		
NAL13041-261	CRHE-DPT0227-010.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7820	50	92		

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NAL13041-262	CRHE-DPT0227-018.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821				
NAL13041-262	CRHE-DPT0227-018.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821				
NAL13041-262	CRHE-DPT0227-018.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821				
NAL13041-262	CRHE-DPT0227-018.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	0.83	I	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821				
NAL13041-262	CRHE-DPT0227-018.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821				
NAL13041-262	CRHE-DPT0227-018.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821				
NAL13041-262	CRHE-DPT0227-018.0-20130401	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821	50	110		
NAL13041-262	CRHE-DPT0227-018.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821	50	106		
NAL13041-262	CRHE-DPT0227-018.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821	50	96		
NAL13041-262	CRHE-DPT0227-018.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7821	50	92		

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NAL13041-264	CRHE-DPT0227-028.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826				
NAL13041-264	CRHE-DPT0227-028.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826				
NAL13041-264	CRHE-DPT0227-028.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826				
NAL13041-264	CRHE-DPT0227-028.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826				
NAL13041-264	CRHE-DPT0227-028.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826				
NAL13041-264	CRHE-DPT0227-028.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826				
NAL13041-264	CRHE-DPT0227-028.0-20130401	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826	50	96		
NAL13041-264	CRHE-DPT0227-028.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826	50	96		
NAL13041-264	CRHE-DPT0227-028.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826	50	96		
NAL13041-264	CRHE-DPT0227-028.0-20130401	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7826	50	90		

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NAL13041-265	CRHE-DPT0227-033.0-20130401	TRG	75-01-4	Vinyl Chloride	10		ug/L	1.0	0.13	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827				
NAL13041-265	CRHE-DPT0227-033.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827				
NAL13041-265	CRHE-DPT0227-033.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	0.54	I	ug/L	1.0	0.28	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827				
NAL13041-265	CRHE-DPT0227-033.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	95		ug/L	1.0	0.20	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827				
NAL13041-265	CRHE-DPT0227-033.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827				
NAL13041-265	CRHE-DPT0227-033.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827				
NAL13041-265	CRHE-DPT0227-033.0-20130401	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827	50	106		
NAL13041-265	CRHE-DPT0227-033.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827	50	106		
NAL13041-265	CRHE-DPT0227-033.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827	50	96		
NAL13041-265	CRHE-DPT0227-033.0-20130401	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/1/2013	4/1/2013	4/1/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7827	50	96		

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NAL13041-266	CRHE-DPT0227-038.0-20130401	TRG	75-01-4	Vinyl Chloride	970		ug/L	100	13	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828				
NAL13041-266	CRHE-DPT0227-038.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828				
NAL13041-266	CRHE-DPT0227-038.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	57	I	ug/L	100	28	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828				
NAL13041-266	CRHE-DPT0227-038.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	1100		ug/L	100	20	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828				
NAL13041-266	CRHE-DPT0227-038.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	100	22	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828				
NAL13041-266	CRHE-DPT0227-038.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828				
NAL13041-266	CRHE-DPT0227-038.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828	50	114		
NAL13041-266	CRHE-DPT0227-038.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828	50	116		
NAL13041-266	CRHE-DPT0227-038.0-20130401	SUR	2037-26-5	Toluene d8	45		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828	50	90		
NAL13041-266	CRHE-DPT0227-038.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7828	50	92		

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NAL13041-267	CRHE-DPT0227-043.0-20130401	TRG	75-01-4	Vinyl Chloride	1600		ug/L	100	13	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829				
NAL13041-267	CRHE-DPT0227-043.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829				
NAL13041-267	CRHE-DPT0227-043.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	210		ug/L	100	28	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829				
NAL13041-267	CRHE-DPT0227-043.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	8200		ug/L	100	20	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829				
NAL13041-267	CRHE-DPT0227-043.0-20130401	TRG	79-01-6	Trichloroethene	42	I	ug/L	100	22	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829				
NAL13041-267	CRHE-DPT0227-043.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829				
NAL13041-267	CRHE-DPT0227-043.0-20130401	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829	50	116		
NAL13041-267	CRHE-DPT0227-043.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829	50	120		
NAL13041-267	CRHE-DPT0227-043.0-20130401	SUR	2037-26-5	Toluene d8	46		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829	50	92		
NAL13041-267	CRHE-DPT0227-043.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7829	50	94		

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NAL13041-268	CRHE-DPT0227-058.0-20130401	TRG	75-01-4	Vinyl Chloride	5.3		ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830				
NAL13041-268	CRHE-DPT0227-058.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830				
NAL13041-268	CRHE-DPT0227-058.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	1.2		ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830				
NAL13041-268	CRHE-DPT0227-058.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830				
NAL13041-268	CRHE-DPT0227-058.0-20130401	TRG	79-01-6	Trichloroethene	3.6		ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830				
NAL13041-268	CRHE-DPT0227-058.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830				
NAL13041-268	CRHE-DPT0227-058.0-20130401	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830	50	120		
NAL13041-268	CRHE-DPT0227-058.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830	50	112		
NAL13041-268	CRHE-DPT0227-058.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830	50	94		
NAL13041-268	CRHE-DPT0227-058.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7830	50	94		

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NAL13041-269	CRHE-DPT0228-010.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831				
NAL13041-269	CRHE-DPT0228-010.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831				
NAL13041-269	CRHE-DPT0228-010.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831				
NAL13041-269	CRHE-DPT0228-010.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831				
NAL13041-269	CRHE-DPT0228-010.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831				
NAL13041-269	CRHE-DPT0228-010.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831				
NAL13041-269	CRHE-DPT0228-010.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831	50	114		
NAL13041-269	CRHE-DPT0228-010.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831	50	114		
NAL13041-269	CRHE-DPT0228-010.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831	50	94		
NAL13041-269	CRHE-DPT0228-010.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7831	50	92		

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NAL13041-270	CRHE-DPT0228-018.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832				
NAL13041-270	CRHE-DPT0228-018.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832				
NAL13041-270	CRHE-DPT0228-018.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832				
NAL13041-270	CRHE-DPT0228-018.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832				
NAL13041-270	CRHE-DPT0228-018.0-20130401	TRG	79-01-6	Trichloroethene	0.54	I	ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832				
NAL13041-270	CRHE-DPT0228-018.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832				
NAL13041-270	CRHE-DPT0228-018.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832	50	114		
NAL13041-270	CRHE-DPT0228-018.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832	50	114		
NAL13041-270	CRHE-DPT0228-018.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832	50	94		
NAL13041-270	CRHE-DPT0228-018.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7832	50	94		

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NAL13041-271	CRHE-DPT0228-028.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833				
NAL13041-271	CRHE-DPT0228-028.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833				
NAL13041-271	CRHE-DPT0228-028.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833				
NAL13041-271	CRHE-DPT0228-028.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	2.3		ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833				
NAL13041-271	CRHE-DPT0228-028.0-20130401	TRG	79-01-6	Trichloroethene	6.1		ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833				
NAL13041-271	CRHE-DPT0228-028.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833				
NAL13041-271	CRHE-DPT0228-028.0-20130401	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833	50	112		
NAL13041-271	CRHE-DPT0228-028.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833	50	112		
NAL13041-271	CRHE-DPT0228-028.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833	50	94		
NAL13041-271	CRHE-DPT0228-028.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7833	50	94		

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P040113CCVA	P040113CCVA	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	98		
P040113CCVA	P040113CCVA	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	96		
P040113CCVA	P040113CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	106		
P040113CCVA	P040113CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	106		
P040113CCVA	P040113CCVA	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	98		
P040113CCVA	P040113CCVA	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	102		
P040113CCVA	P040113CCVA	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	102		
P040113CCVA	P040113CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	98		
P040113CCVA	P040113CCVA	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	100		
P040113CCVA	P040113CCVA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7799	50	94		

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P040113MBKA	P040113MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802				
P040113MBKA	P040113MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802				
P040113MBKA	P040113MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802				
P040113MBKA	P040113MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802				
P040113MBKA	P040113MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802				
P040113MBKA	P040113MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802				
P040113MBKA	P040113MBKA	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802	50	114		
P040113MBKA	P040113MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802	50	116		
P040113MBKA	P040113MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802	50	94		
P040113MBKA	P040113MBKA	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7802	50	98		

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P040113CCVB	P040113CCVB	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	114		
P040113CCVB	P040113CCVB	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	92		
P040113CCVB	P040113CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	48		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	96		
P040113CCVB	P040113CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	100		
P040113CCVB	P040113CCVB	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	106		
P040113CCVB	P040113CCVB	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	108		
P040113CCVB	P040113CCVB	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	90		
P040113CCVB	P040113CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	88		
P040113CCVB	P040113CCVB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	94		
P040113CCVB	P040113CCVB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	96		

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P040113MBKB	P040113MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	112		
P040113MBKB	P040113MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	114		
P040113MBKB	P040113MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	96		
P040113MBKB	P040113MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P040113ALCS	P040113ALCS	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	92		
P040113ALCS	P040113ALCS	TRG	75-35-4	1,1-Dichloroethene	38		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	76		
P040113ALCS	P040113ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	38		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	76		
P040113ALCS	P040113ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	42		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	84		
P040113ALCS	P040113ALCS	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	98		
P040113ALCS	P040113ALCS	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	100		
P040113ALCS	P040113ALCS	SUR	1868-53-7	Dibromofluoromethane	42		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	84		
P040113ALCS	P040113ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	38		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	76		
P040113ALCS	P040113ALCS	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	94		
P040113ALCS	P040113ALCS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7800	50	96		

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P040113ALCD	P040113ALCD	TRG	75-01-4	Vinyl Chloride	49		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	98	6	
P040113ALCD	P040113ALCD	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	86	12	
P040113ALCD	P040113ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	47		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	94	21	
P040113ALCD	P040113ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	48		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	96	13	
P040113ALCD	P040113ALCD	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	96	2	
P040113ALCD	P040113ALCD	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	98	2	
P040113ALCD	P040113ALCD	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	100	17	
P040113ALCD	P040113ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	96	23	
P040113ALCD	P040113ALCD	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	100	6	
P040113ALCD	P040113ALCD	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7801	50	98	2	

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NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	96		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	TRG	75-35-4	1,1-Dichloroethene	48		ug/L	1.0	0.18	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	96		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	TRG	156-60-5	Trans-1,2-Dichloroethene	51		ug/L	1.0	0.28	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	102		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	104		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	98		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	102		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	102		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	98		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	SUR	2037-26-5	Toluene d8	50		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	100		
NAL13041-245MS	CRHE-DPT0225-018.0-20130329MS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7804	50	96		

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NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	TRG	75-01-4	Vinyl Chloride	51		ug/L	1.0	0.13	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	102	6	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	94	2	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	1.0	0.28	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	100	2	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	112	7	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	108	10	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	100	2	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	102	0	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	98	0	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	SUR	2037-26-5	Toluene d8	50		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	100	0	
NAL13041-245MSD	CRHE-DPT0225-018.0-20130329MSD	SUR	460-00-4	Bromofluorobenzene	49		ug/L			3/29/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7805	50	98	2	

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NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842				
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842				
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842				
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	1.3		ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842				
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	TRG	79-01-6	Trichloroethene	2.3		ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842				
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842				
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842	50	114		
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842	50	114		
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842	50	94		
NAL13041-263 RR	CRHE-DPT0227-023.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7842	50	94		

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NAL13041-272	CRHE-DPT0228-030.0-20130401	TRG	75-01-4	Vinyl Chloride	1000		ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834				
NAL13041-272	CRHE-DPT0228-030.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834				
NAL13041-272	CRHE-DPT0228-030.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	0.62	I	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834				
NAL13041-272	CRHE-DPT0228-030.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	1.0		ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834				
NAL13041-272	CRHE-DPT0228-030.0-20130401	TRG	79-01-6	Trichloroethene	1.1		ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834				
NAL13041-272	CRHE-DPT0228-030.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834				
NAL13041-272	CRHE-DPT0228-030.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834	50	114		
NAL13041-272	CRHE-DPT0228-030.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834	50	114		
NAL13041-272	CRHE-DPT0228-030.0-20130401	SUR	2037-26-5	Toluene d8	46		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834	50	92		
NAL13041-272	CRHE-DPT0228-030.0-20130401	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7834	50	92		

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NAL13041-273	CRHE-DPT0228-038.0-20130401	TRG	75-01-4	Vinyl Chloride	1000		ug/L	50	6.5	4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843				
NAL13041-273	CRHE-DPT0228-038.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843				
NAL13041-273	CRHE-DPT0228-038.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene	31	I	ug/L	50	14	4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843				
NAL13041-273	CRHE-DPT0228-038.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	130		ug/L	50	10	4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843				
NAL13041-273	CRHE-DPT0228-038.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843				
NAL13041-273	CRHE-DPT0228-038.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843				
NAL13041-273	CRHE-DPT0228-038.0-20130401	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843	50	108		
NAL13041-273	CRHE-DPT0228-038.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843	50	108		
NAL13041-273	CRHE-DPT0228-038.0-20130401	SUR	2037-26-5	Toluene d8	48		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843	50	96		
NAL13041-273	CRHE-DPT0228-038.0-20130401	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7843	50	90		

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NAL13041-274	CRHE-DPT0228-043.0-20130401	TRG	75-01-4	Vinyl Chloride	2900		ug/L	100	13	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844				
NAL13041-274	CRHE-DPT0228-043.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844				
NAL13041-274	CRHE-DPT0228-043.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844				
NAL13041-274	CRHE-DPT0228-043.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene	300		ug/L	100	20	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844				
NAL13041-274	CRHE-DPT0228-043.0-20130401	TRG	79-01-6	Trichloroethene	76	I	ug/L	100	22	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844				
NAL13041-274	CRHE-DPT0228-043.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844				
NAL13041-274	CRHE-DPT0228-043.0-20130401	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844	50	114		
NAL13041-274	CRHE-DPT0228-043.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844	50	114		
NAL13041-274	CRHE-DPT0228-043.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844	50	94		
NAL13041-274	CRHE-DPT0228-043.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7844	50	94		

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NAL13041-275	CRHE-DPT0228-023.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837				
NAL13041-275	CRHE-DPT0228-023.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837				
NAL13041-275	CRHE-DPT0228-023.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837				
NAL13041-275	CRHE-DPT0228-023.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837				
NAL13041-275	CRHE-DPT0228-023.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837				
NAL13041-275	CRHE-DPT0228-023.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837				
NAL13041-275	CRHE-DPT0228-023.0-20130401	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837	50	112		
NAL13041-275	CRHE-DPT0228-023.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837	50	118		
NAL13041-275	CRHE-DPT0228-023.0-20130401	SUR	2037-26-5	Toluene d8	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837	50	94		
NAL13041-275	CRHE-DPT0228-023.0-20130401	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7837	50	90		

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NAL13041-276	CRHE-DPT0228-058.0-20130401	TRG	75-01-4	Vinyl Chloride	4.6		ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838				
NAL13041-276	CRHE-DPT0228-058.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838				
NAL13041-276	CRHE-DPT0228-058.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838				
NAL13041-276	CRHE-DPT0228-058.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838				
NAL13041-276	CRHE-DPT0228-058.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838				
NAL13041-276	CRHE-DPT0228-058.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838				
NAL13041-276	CRHE-DPT0228-058.0-20130401	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838	50	118		
NAL13041-276	CRHE-DPT0228-058.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838	50	130		
NAL13041-276	CRHE-DPT0228-058.0-20130401	SUR	2037-26-5	Toluene d8	45		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838	50	90		
NAL13041-276	CRHE-DPT0228-058.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7838	50	94		

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NAL13041-277	CRHE-DPT0229-010.0-20130401	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839				
NAL13041-277	CRHE-DPT0229-010.0-20130401	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839				
NAL13041-277	CRHE-DPT0229-010.0-20130401	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839				
NAL13041-277	CRHE-DPT0229-010.0-20130401	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839				
NAL13041-277	CRHE-DPT0229-010.0-20130401	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839				
NAL13041-277	CRHE-DPT0229-010.0-20130401	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839				
NAL13041-277	CRHE-DPT0229-010.0-20130401	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839	50	102		
NAL13041-277	CRHE-DPT0229-010.0-20130401	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839	50	120		
NAL13041-277	CRHE-DPT0229-010.0-20130401	SUR	2037-26-5	Toluene d8	46		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839	50	92		
NAL13041-277	CRHE-DPT0229-010.0-20130401	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7839	50	94		

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NAL13041-278	CRHE-DPT0229-018.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845				
NAL13041-278	CRHE-DPT0229-018.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845				
NAL13041-278	CRHE-DPT0229-018.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845				
NAL13041-278	CRHE-DPT0229-018.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845				
NAL13041-278	CRHE-DPT0229-018.0-20130402	TRG	79-01-6	Trichloroethene	0.81	I	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845				
NAL13041-278	CRHE-DPT0229-018.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845				
NAL13041-278	CRHE-DPT0229-018.0-20130402	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845	50	112		
NAL13041-278	CRHE-DPT0229-018.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845	50	110		
NAL13041-278	CRHE-DPT0229-018.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845	50	94		
NAL13041-278	CRHE-DPT0229-018.0-20130402	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7845	50	90		

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NAL13041-279	CRHE-DPT0229-023.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850				
NAL13041-279	CRHE-DPT0229-023.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850				
NAL13041-279	CRHE-DPT0229-023.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850				
NAL13041-279	CRHE-DPT0229-023.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850				
NAL13041-279	CRHE-DPT0229-023.0-20130402	TRG	79-01-6	Trichloroethene	0.53	I	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850				
NAL13041-279	CRHE-DPT0229-023.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850				
NAL13041-279	CRHE-DPT0229-023.0-20130402	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850	50	104		
NAL13041-279	CRHE-DPT0229-023.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850	50	96		
NAL13041-279	CRHE-DPT0229-023.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850	50	94		
NAL13041-279	CRHE-DPT0229-023.0-20130402	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7850	50	90		

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NAL13041-280	CRHE-DPT0229-028.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851				
NAL13041-280	CRHE-DPT0229-028.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851				
NAL13041-280	CRHE-DPT0229-028.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851				
NAL13041-280	CRHE-DPT0229-028.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851				
NAL13041-280	CRHE-DPT0229-028.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851				
NAL13041-280	CRHE-DPT0229-028.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851				
NAL13041-280	CRHE-DPT0229-028.0-20130402	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851	50	116		
NAL13041-280	CRHE-DPT0229-028.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851	50	110		
NAL13041-280	CRHE-DPT0229-028.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851	50	94		
NAL13041-280	CRHE-DPT0229-028.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7851	50	94		

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NAL13041-281	CRHE-DPT0229-033.0-20130402	TRG	75-01-4	Vinyl Chloride	19		ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852				
NAL13041-281	CRHE-DPT0229-033.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852				
NAL13041-281	CRHE-DPT0229-033.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	2.3		ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852				
NAL13041-281	CRHE-DPT0229-033.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	7.4		ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852				
NAL13041-281	CRHE-DPT0229-033.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852				
NAL13041-281	CRHE-DPT0229-033.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852				
NAL13041-281	CRHE-DPT0229-033.0-20130402	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852	50	110		
NAL13041-281	CRHE-DPT0229-033.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852	50	102		
NAL13041-281	CRHE-DPT0229-033.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852	50	94		
NAL13041-281	CRHE-DPT0229-033.0-20130402	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7852	50	90		

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NAL13041-282	CRHE-DPT0229-038.0-20130402	TRG	75-01-4	Vinyl Chloride	290		ug/L	50	6.5	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853				
NAL13041-282	CRHE-DPT0229-038.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853				
NAL13041-282	CRHE-DPT0229-038.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	71		ug/L	50	14	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853				
NAL13041-282	CRHE-DPT0229-038.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	2500		ug/L	50	10	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853				
NAL13041-282	CRHE-DPT0229-038.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853				
NAL13041-282	CRHE-DPT0229-038.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853				
NAL13041-282	CRHE-DPT0229-038.0-20130402	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853	50	96		
NAL13041-282	CRHE-DPT0229-038.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853	50	88		
NAL13041-282	CRHE-DPT0229-038.0-20130402	SUR	2037-26-5	Toluene d8	48		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853	50	96		
NAL13041-282	CRHE-DPT0229-038.0-20130402	SUR	460-00-4	Bromofluorobenzene	43		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7853	50	86		

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NAL13041-283	CRHE-DPT0229-043.0-20130402	TRG	75-01-4	Vinyl Chloride	150		ug/L	50	6.5	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854				
NAL13041-283	CRHE-DPT0229-043.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854				
NAL13041-283	CRHE-DPT0229-043.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	50	14	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854				
NAL13041-283	CRHE-DPT0229-043.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	1900		ug/L	50	10	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854				
NAL13041-283	CRHE-DPT0229-043.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854				
NAL13041-283	CRHE-DPT0229-043.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854				
NAL13041-283	CRHE-DPT0229-043.0-20130402	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854	50	108		
NAL13041-283	CRHE-DPT0229-043.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854	50	104		
NAL13041-283	CRHE-DPT0229-043.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854	50	94		
NAL13041-283	CRHE-DPT0229-043.0-20130402	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7854	50	92		

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NAL13041-284	CRHE-DPT0229-058.0-20130402	TRG	75-01-4	Vinyl Chloride	2.1		ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855				
NAL13041-284	CRHE-DPT0229-058.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855				
NAL13041-284	CRHE-DPT0229-058.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855				
NAL13041-284	CRHE-DPT0229-058.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	11		ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855				
NAL13041-284	CRHE-DPT0229-058.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855				
NAL13041-284	CRHE-DPT0229-058.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855				
NAL13041-284	CRHE-DPT0229-058.0-20130402	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855	50	116		
NAL13041-284	CRHE-DPT0229-058.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855	50	112		
NAL13041-284	CRHE-DPT0229-058.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855	50	94		
NAL13041-284	CRHE-DPT0229-058.0-20130402	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7855	50	90		

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NAL13041-285	CRHE-DPT0230-010.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856				
NAL13041-285	CRHE-DPT0230-010.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856				
NAL13041-285	CRHE-DPT0230-010.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856				
NAL13041-285	CRHE-DPT0230-010.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856				
NAL13041-285	CRHE-DPT0230-010.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856				
NAL13041-285	CRHE-DPT0230-010.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856				
NAL13041-285	CRHE-DPT0230-010.0-20130402	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856	50	106		
NAL13041-285	CRHE-DPT0230-010.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856	50	98		
NAL13041-285	CRHE-DPT0230-010.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856	50	94		
NAL13041-285	CRHE-DPT0230-010.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7856	50	94		

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NAL13041-286	CRHE-DPT0230-018.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857				
NAL13041-286	CRHE-DPT0230-018.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857				
NAL13041-286	CRHE-DPT0230-018.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857				
NAL13041-286	CRHE-DPT0230-018.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	0.81	I	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857				
NAL13041-286	CRHE-DPT0230-018.0-20130402	TRG	79-01-6	Trichloroethene	1.5		ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857				
NAL13041-286	CRHE-DPT0230-018.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857				
NAL13041-286	CRHE-DPT0230-018.0-20130402	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857	50	102		
NAL13041-286	CRHE-DPT0230-018.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857	50	96		
NAL13041-286	CRHE-DPT0230-018.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857	50	94		
NAL13041-286	CRHE-DPT0230-018.0-20130402	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7857	50	92		

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NAL13041-287	CRHE-DPT0230-023.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858				
NAL13041-287	CRHE-DPT0230-023.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858				
NAL13041-287	CRHE-DPT0230-023.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858				
NAL13041-287	CRHE-DPT0230-023.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858				
NAL13041-287	CRHE-DPT0230-023.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858				
NAL13041-287	CRHE-DPT0230-023.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858				
NAL13041-287	CRHE-DPT0230-023.0-20130402	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858	50	110		
NAL13041-287	CRHE-DPT0230-023.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858	50	102		
NAL13041-287	CRHE-DPT0230-023.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858	50	94		
NAL13041-287	CRHE-DPT0230-023.0-20130402	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7858	50	90		

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NAL13041-288	CRHE-DPT0230-028.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859				
NAL13041-288	CRHE-DPT0230-028.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859				
NAL13041-288	CRHE-DPT0230-028.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859				
NAL13041-288	CRHE-DPT0230-028.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859				
NAL13041-288	CRHE-DPT0230-028.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859				
NAL13041-288	CRHE-DPT0230-028.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859				
NAL13041-288	CRHE-DPT0230-028.0-20130402	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859	50	116		
NAL13041-288	CRHE-DPT0230-028.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859	50	112		
NAL13041-288	CRHE-DPT0230-028.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859	50	94		
NAL13041-288	CRHE-DPT0230-028.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7859	50	94		

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P040113CCVB	P040113CCVB	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	114		
P040113CCVB	P040113CCVB	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	92		
P040113CCVB	P040113CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	48		ug/L	1.0	0.28	NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	96		
P040113CCVB	P040113CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	100		
P040113CCVB	P040113CCVB	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	106		
P040113CCVB	P040113CCVB	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	108		
P040113CCVB	P040113CCVB	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	90		
P040113CCVB	P040113CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	88		
P040113CCVB	P040113CCVB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	94		
P040113CCVB	P040113CCVB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/1/2013	4/1/2013	WQ	1	-	5.0	NA	SW8260B	NALP7823	50	96		

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P040113MBKB	P040113MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825				
P040113MBKB	P040113MBKB	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	112		
P040113MBKB	P040113MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	114		
P040113MBKB	P040113MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	96		
P040113MBKB	P040113MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/1/2013	4/1/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7825	50	94		

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P040213CCVA	P040213CCVA	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	114		
P040213CCVA	P040213CCVA	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	84		
P040213CCVA	P040213CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	92		
P040213CCVA	P040213CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	94		
P040213CCVA	P040213CCVA	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	96		
P040213CCVA	P040213CCVA	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	100		
P040213CCVA	P040213CCVA	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	96		
P040213CCVA	P040213CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	88		
P040213CCVA	P040213CCVA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	94		
P040213CCVA	P040213CCVA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	5.0	NA	SW8260B	NALP7840	50	94		

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P040213MBKA	P040213MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841				
P040213MBKA	P040213MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841				
P040213MBKA	P040213MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841				
P040213MBKA	P040213MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841				
P040213MBKA	P040213MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841				
P040213MBKA	P040213MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841				
P040213MBKA	P040213MBKA	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841	50	100		
P040213MBKA	P040213MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841	50	96		
P040213MBKA	P040213MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841	50	94		
P040213MBKA	P040213MBKA	SUR	460-00-4	Bromofluorobenzene	46		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7841	50	92		

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P040213ALCS	P040213ALCS	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	118		
P040213ALCS	P040213ALCS	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	82		
P040213ALCS	P040213ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	92		
P040213ALCS	P040213ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	49		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	98		
P040213ALCS	P040213ALCS	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	100		
P040213ALCS	P040213ALCS	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	100		
P040213ALCS	P040213ALCS	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	94		
P040213ALCS	P040213ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	86		
P040213ALCS	P040213ALCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	98		
P040213ALCS	P040213ALCS	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7863	50	94		

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P040213ALCD	P040213ALCD	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	120	2	
P040213ALCD	P040213ALCD	TRG	75-35-4	1,1-Dichloroethene	42		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	84	2	
P040213ALCD	P040213ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	47		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	94	2	
P040213ALCD	P040213ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	49		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	98	0	
P040213ALCD	P040213ALCD	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	100	0	
P040213ALCD	P040213ALCD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	100	0	
P040213ALCD	P040213ALCD	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	96	2	
P040213ALCD	P040213ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	86	0	
P040213ALCD	P040213ALCD	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	96	2	
P040213ALCD	P040213ALCD	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7864	50	94	0	

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NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	TRG	75-01-4	Vinyl Chloride	63		ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	126		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	92		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	110		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	112		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	102		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	100		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	104		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	94		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	SUR	2037-26-5	Toluene d8	49		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	98		
NAL13041-277MS	CRHE-DPT0229-010.0-20130401MS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7865	50	96		

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NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	TRG	75-01-4	Vinyl Chloride	65		ug/L	1.0	0.13	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	130	3	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	94	2	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	1.0	0.28	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	110	0	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	112	0	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	102	0	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	102	2	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	100	4	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	96	2	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	SUR	2037-26-5	Toluene d8	50		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	100	2	
NAL13041-277MSD	CRHE-DPT0229-010.0-20130401MSD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/1/2013	4/2/2013	4/2/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7866	50	96	0	

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NAL13041-289	CRHE-DPT0230-033.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885				
NAL13041-289	CRHE-DPT0230-033.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885				
NAL13041-289	CRHE-DPT0230-033.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885				
NAL13041-289	CRHE-DPT0230-033.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885				
NAL13041-289	CRHE-DPT0230-033.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885				
NAL13041-289	CRHE-DPT0230-033.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885				
NAL13041-289	CRHE-DPT0230-033.0-20130402	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885	50	104		
NAL13041-289	CRHE-DPT0230-033.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885	50	110		
NAL13041-289	CRHE-DPT0230-033.0-20130402	SUR	2037-26-5	Toluene d8	48		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885	50	96		
NAL13041-289	CRHE-DPT0230-033.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7885	50	94		

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NAL13041-291	CRHE-DPT0230-043.0-20130402	TRG	75-01-4	Vinyl Chloride	37		ug/L	10	1.3	4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869				
NAL13041-291	CRHE-DPT0230-043.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869				
NAL13041-291	CRHE-DPT0230-043.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869				
NAL13041-291	CRHE-DPT0230-043.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	13		ug/L	10	2.0	4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869				
NAL13041-291	CRHE-DPT0230-043.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869				
NAL13041-291	CRHE-DPT0230-043.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869				
NAL13041-291	CRHE-DPT0230-043.0-20130402	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869	50	108		
NAL13041-291	CRHE-DPT0230-043.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869	50	104		
NAL13041-291	CRHE-DPT0230-043.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869	50	94		
NAL13041-291	CRHE-DPT0230-043.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7869	50	94		

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NAL13041-293	CRHE-DPT0231-018.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871				
NAL13041-293	CRHE-DPT0231-018.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871				
NAL13041-293	CRHE-DPT0231-018.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871				
NAL13041-293	CRHE-DPT0231-018.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871				
NAL13041-293	CRHE-DPT0231-018.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871				
NAL13041-293	CRHE-DPT0231-018.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871				
NAL13041-293	CRHE-DPT0231-018.0-20130402	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871	50	112		
NAL13041-293	CRHE-DPT0231-018.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871	50	106		
NAL13041-293	CRHE-DPT0231-018.0-20130402	SUR	2037-26-5	Toluene d8	48		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871	50	96		
NAL13041-293	CRHE-DPT0231-018.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7871	50	94		

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NAL13041-294	CRHE-DPT0231-023.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872				
NAL13041-294	CRHE-DPT0231-023.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872				
NAL13041-294	CRHE-DPT0231-023.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872				
NAL13041-294	CRHE-DPT0231-023.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872				
NAL13041-294	CRHE-DPT0231-023.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872				
NAL13041-294	CRHE-DPT0231-023.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872				
NAL13041-294	CRHE-DPT0231-023.0-20130402	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872	50	120		
NAL13041-294	CRHE-DPT0231-023.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872	50	116		
NAL13041-294	CRHE-DPT0231-023.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872	50	94		
NAL13041-294	CRHE-DPT0231-023.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7872	50	94		

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NAL13041-295	CRHE-DPT0231-028.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873				
NAL13041-295	CRHE-DPT0231-028.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873				
NAL13041-295	CRHE-DPT0231-028.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873				
NAL13041-295	CRHE-DPT0231-028.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873				
NAL13041-295	CRHE-DPT0231-028.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873				
NAL13041-295	CRHE-DPT0231-028.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873				
NAL13041-295	CRHE-DPT0231-028.0-20130402	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873	50	120		
NAL13041-295	CRHE-DPT0231-028.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873	50	114		
NAL13041-295	CRHE-DPT0231-028.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873	50	94		
NAL13041-295	CRHE-DPT0231-028.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7873	50	94		

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NAL13041-297	CRHE-DPT0231-038.0-20130402	TRG	75-01-4	Vinyl Chloride	1100		ug/L	50	6.5	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875				
NAL13041-297	CRHE-DPT0231-038.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875				
NAL13041-297	CRHE-DPT0231-038.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	78		ug/L	50	14	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875				
NAL13041-297	CRHE-DPT0231-038.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	2600		ug/L	50	10	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875				
NAL13041-297	CRHE-DPT0231-038.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875				
NAL13041-297	CRHE-DPT0231-038.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875				
NAL13041-297	CRHE-DPT0231-038.0-20130402	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875	50	122		
NAL13041-297	CRHE-DPT0231-038.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875	50	116		
NAL13041-297	CRHE-DPT0231-038.0-20130402	SUR	2037-26-5	Toluene d8	46		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875	50	92		
NAL13041-297	CRHE-DPT0231-038.0-20130402	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7875	50	92		

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NAL13041-298	CRHE-DPT0231-043.0-20130402	TRG	75-01-4	Vinyl Chloride	910		ug/L	50	6.5	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876				
NAL13041-298	CRHE-DPT0231-043.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876				
NAL13041-298	CRHE-DPT0231-043.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	290		ug/L	50	14	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876				
NAL13041-298	CRHE-DPT0231-043.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	9900		ug/L	50	10	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876				
NAL13041-298	CRHE-DPT0231-043.0-20130402	TRG	79-01-6	Trichloroethene	650		ug/L	50	11	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876				
NAL13041-298	CRHE-DPT0231-043.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876				
NAL13041-298	CRHE-DPT0231-043.0-20130402	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876	50	116		
NAL13041-298	CRHE-DPT0231-043.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876	50	110		
NAL13041-298	CRHE-DPT0231-043.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876	50	94		
NAL13041-298	CRHE-DPT0231-043.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7876	50	94		

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NAL13041-299	CRHE-DPT0231-010.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877				
NAL13041-299	CRHE-DPT0231-010.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877				
NAL13041-299	CRHE-DPT0231-010.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877				
NAL13041-299	CRHE-DPT0231-010.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	1.4		ug/L	1.0	0.20	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877				
NAL13041-299	CRHE-DPT0231-010.0-20130402	TRG	79-01-6	Trichloroethene	3.5		ug/L	1.0	0.22	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877				
NAL13041-299	CRHE-DPT0231-010.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877				
NAL13041-299	CRHE-DPT0231-010.0-20130402	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877	50	118		
NAL13041-299	CRHE-DPT0231-010.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877	50	112		
NAL13041-299	CRHE-DPT0231-010.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877	50	94		
NAL13041-299	CRHE-DPT0231-010.0-20130402	SUR	460-00-4	Bromofluorobenzene	50		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7877	50	100		

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NAL13041-300	CRHE-DPT0231-058.0-20130402	TRG	75-01-4	Vinyl Chloride	2.2		ug/L	1.0	0.13	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878				
NAL13041-300	CRHE-DPT0231-058.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878				
NAL13041-300	CRHE-DPT0231-058.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878				
NAL13041-300	CRHE-DPT0231-058.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene	7.2		ug/L	1.0	0.20	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878				
NAL13041-300	CRHE-DPT0231-058.0-20130402	TRG	79-01-6	Trichloroethene	1.2		ug/L	1.0	0.22	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878				
NAL13041-300	CRHE-DPT0231-058.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878				
NAL13041-300	CRHE-DPT0231-058.0-20130402	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878	50	122		
NAL13041-300	CRHE-DPT0231-058.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	60		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878	50	120		
NAL13041-300	CRHE-DPT0231-058.0-20130402	SUR	2037-26-5	Toluene d8	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878	50	94		
NAL13041-300	CRHE-DPT0231-058.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7878	50	94		

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NAL13041-301	CRHE-DPT0232-010.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890				
NAL13041-301	CRHE-DPT0232-010.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890				
NAL13041-301	CRHE-DPT0232-010.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890				
NAL13041-301	CRHE-DPT0232-010.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890				
NAL13041-301	CRHE-DPT0232-010.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890				
NAL13041-301	CRHE-DPT0232-010.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890				
NAL13041-301	CRHE-DPT0232-010.0-20130403	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890	50	106		
NAL13041-301	CRHE-DPT0232-010.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890	50	102		
NAL13041-301	CRHE-DPT0232-010.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890	50	98		
NAL13041-301	CRHE-DPT0232-010.0-20130403	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7890	50	92		

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NAL13041-302	CRHE-DPT0232-018.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889				
NAL13041-302	CRHE-DPT0232-018.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889				
NAL13041-302	CRHE-DPT0232-018.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889				
NAL13041-302	CRHE-DPT0232-018.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889				
NAL13041-302	CRHE-DPT0232-018.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889				
NAL13041-302	CRHE-DPT0232-018.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889				
NAL13041-302	CRHE-DPT0232-018.0-20130403	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889	50	102		
NAL13041-302	CRHE-DPT0232-018.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889	50	96		
NAL13041-302	CRHE-DPT0232-018.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889	50	98		
NAL13041-302	CRHE-DPT0232-018.0-20130403	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7889	50	92		

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NAL13041-303	CRHE-DPT0232-023.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888				
NAL13041-303	CRHE-DPT0232-023.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888				
NAL13041-303	CRHE-DPT0232-023.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888				
NAL13041-303	CRHE-DPT0232-023.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888				
NAL13041-303	CRHE-DPT0232-023.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888				
NAL13041-303	CRHE-DPT0232-023.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888				
NAL13041-303	CRHE-DPT0232-023.0-20130403	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888	50	106		
NAL13041-303	CRHE-DPT0232-023.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888	50	102		
NAL13041-303	CRHE-DPT0232-023.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888	50	98		
NAL13041-303	CRHE-DPT0232-023.0-20130403	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7888	50	92		

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NAL13041-304	CRHE-DPT0232-028.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887				
NAL13041-304	CRHE-DPT0232-028.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887				
NAL13041-304	CRHE-DPT0232-028.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887				
NAL13041-304	CRHE-DPT0232-028.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887				
NAL13041-304	CRHE-DPT0232-028.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887				
NAL13041-304	CRHE-DPT0232-028.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887				
NAL13041-304	CRHE-DPT0232-028.0-20130403	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887	50	110		
NAL13041-304	CRHE-DPT0232-028.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887	50	106		
NAL13041-304	CRHE-DPT0232-028.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887	50	96		
NAL13041-304	CRHE-DPT0232-028.0-20130403	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7887	50	92		

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NAL13041-305	CRHE-DPT0232-033.0-20130403	TRG	75-01-4	Vinyl Chloride	280		ug/L	10	1.3	4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886				
NAL13041-305	CRHE-DPT0232-033.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886				
NAL13041-305	CRHE-DPT0232-033.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886				
NAL13041-305	CRHE-DPT0232-033.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	180		ug/L	10	2.0	4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886				
NAL13041-305	CRHE-DPT0232-033.0-20130403	TRG	79-01-6	Trichloroethene	3.9	I	ug/L	10	2.2	4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886				
NAL13041-305	CRHE-DPT0232-033.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886				
NAL13041-305	CRHE-DPT0232-033.0-20130403	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886	50	108		
NAL13041-305	CRHE-DPT0232-033.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886	50	104		
NAL13041-305	CRHE-DPT0232-033.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886	50	98		
NAL13041-305	CRHE-DPT0232-033.0-20130403	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7886	50	94		

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NAL13041-308	CRHE-DPT0232-058.0-20130403	TRG	75-01-4	Vinyl Chloride	0.61	I	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882				
NAL13041-308	CRHE-DPT0232-058.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882				
NAL13041-308	CRHE-DPT0232-058.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882				
NAL13041-308	CRHE-DPT0232-058.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	1.2		ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882				
NAL13041-308	CRHE-DPT0232-058.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882				
NAL13041-308	CRHE-DPT0232-058.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882				
NAL13041-308	CRHE-DPT0232-058.0-20130403	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882	50	98		
NAL13041-308	CRHE-DPT0232-058.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882	50	92		
NAL13041-308	CRHE-DPT0232-058.0-20130403	SUR	2037-26-5	Toluene d8	47		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882	50	94		
NAL13041-308	CRHE-DPT0232-058.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7882	50	98		

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NAL13041-316	CRHE-DPT0233-058.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891				
NAL13041-316	CRHE-DPT0233-058.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891				
NAL13041-316	CRHE-DPT0233-058.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891				
NAL13041-316	CRHE-DPT0233-058.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891				
NAL13041-316	CRHE-DPT0233-058.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891				
NAL13041-316	CRHE-DPT0233-058.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891				
NAL13041-316	CRHE-DPT0233-058.0-20130403	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891	50	102		
NAL13041-316	CRHE-DPT0233-058.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891	50	94		
NAL13041-316	CRHE-DPT0233-058.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891	50	98		
NAL13041-316	CRHE-DPT0233-058.0-20130403	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7891	50	92		

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P040213CCVB	P040213CCVB	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	118		
P040213CCVB	P040213CCVB	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	86		
P040213CCVB	P040213CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	48		ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	96		
P040213CCVB	P040213CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	49		ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	98		
P040213CCVB	P040213CCVB	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	102		
P040213CCVB	P040213CCVB	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	100		
P040213CCVB	P040213CCVB	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	96		
P040213CCVB	P040213CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	88		
P040213CCVB	P040213CCVB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	96		
P040213CCVB	P040213CCVB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	-	-	NA	SW8260B	NALP7862	50	94		

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P040213MBKB	P040213MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867				
P040213MBKB	P040213MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867				
P040213MBKB	P040213MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867				
P040213MBKB	P040213MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867				
P040213MBKB	P040213MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867				
P040213MBKB	P040213MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867				
P040213MBKB	P040213MBKB	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867	50	108		
P040213MBKB	P040213MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867	50	104		
P040213MBKB	P040213MBKB	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867	50	94		
P040213MBKB	P040213MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/2/2013	4/2/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7867	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P040313CCVB	P040313CCVB	TRG	75-01-4	Vinyl Chloride	56		ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	112		
P040313CCVB	P040313CCVB	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	80		
P040313CCVB	P040313CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	41		ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	82		
P040313CCVB	P040313CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	43		ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	86		
P040313CCVB	P040313CCVB	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	94		
P040313CCVB	P040313CCVB	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	100		
P040313CCVB	P040313CCVB	SUR	1868-53-7	Dibromofluoromethane	43		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	86		
P040313CCVB	P040313CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	78		
P040313CCVB	P040313CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	98		
P040313CCVB	P040313CCVB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	-	NA	SW8260B	NALP7880	50	96		

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P040313MBKA	P040313MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	98		
P040313MBKA	P040313MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	108		
P040313MBKA	P040313MBKA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	96		
P040313MBKA	P040313MBKA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	94		

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P040313ALCS	P040313ALCS	TRG	75-01-4	Vinyl Chloride	54		ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	108		
P040313ALCS	P040313ALCS	TRG	75-35-4	1,1-Dichloroethene	38		ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	76		
P040313ALCS	P040313ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	39		ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	78		
P040313ALCS	P040313ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	42		ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	84		
P040313ALCS	P040313ALCS	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	96		
P040313ALCS	P040313ALCS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	102		
P040313ALCS	P040313ALCS	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	92		
P040313ALCS	P040313ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	42		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	84		
P040313ALCS	P040313ALCS	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	100		
P040313ALCS	P040313ALCS	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7899	50	94		

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P040313ALCD	P040313ALCD	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	114	5	
P040313ALCD	P040313ALCD	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	82	8	
P040313ALCD	P040313ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	47		ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	94	19	
P040313ALCD	P040313ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	94	11	
P040313ALCD	P040313ALCD	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	100	4	
P040313ALCD	P040313ALCD	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	104	2	
P040313ALCD	P040313ALCD	SUR	1868-53-7	Dibromofluoromethane	46		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	92	0	
P040313ALCD	P040313ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	43		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	86	2	
P040313ALCD	P040313ALCD	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	102	2	
P040313ALCD	P040313ALCD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7900	50	96	2	

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NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	TRG	75-01-4	Vinyl Chloride	62		ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	123		0.61
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	TRG	75-35-4	1,1-Dichloroethene	50		ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	100		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	TRG	156-60-5	Trans-1,2-Dichloroethene	56		ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	112		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	112		1.2
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	TRG	79-01-6	Trichloroethene	55		ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	110		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	102		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	100		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	102		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	SUR	2037-26-5	Toluene d8	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	102		
NAL13041-308MS	CRHE-DPT0232-058.0-20130403MS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7902	50	96		

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NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	TRG	75-01-4	Vinyl Chloride	53		ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	105	16	0.61
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	TRG	75-35-4	1,1-Dichloroethene	41		ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	82	20	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	92	20	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	49		ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	98	13	1.2
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	96	14	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	100	2	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	100	0	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	94	8	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	SUR	2037-26-5	Toluene d8	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	102	0	
NAL13041-308MSD	CRHE-DPT0232-058.0-20130403MSD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7903	50	96	0	

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NAL13041-309	CRHE-DPT0233-010.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898				
NAL13041-309	CRHE-DPT0233-010.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898				
NAL13041-309	CRHE-DPT0233-010.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898				
NAL13041-309	CRHE-DPT0233-010.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898				
NAL13041-309	CRHE-DPT0233-010.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898				
NAL13041-309	CRHE-DPT0233-010.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898				
NAL13041-309	CRHE-DPT0233-010.0-20130403	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898	50	116		
NAL13041-309	CRHE-DPT0233-010.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898	50	110		
NAL13041-309	CRHE-DPT0233-010.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898	50	96		
NAL13041-309	CRHE-DPT0233-010.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7898	50	98		

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NAL13041-311	CRHE-DPT0233-023.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896				
NAL13041-311	CRHE-DPT0233-023.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896				
NAL13041-311	CRHE-DPT0233-023.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896				
NAL13041-311	CRHE-DPT0233-023.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896				
NAL13041-311	CRHE-DPT0233-023.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896				
NAL13041-311	CRHE-DPT0233-023.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896				
NAL13041-311	CRHE-DPT0233-023.0-20130403	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896	50	108		
NAL13041-311	CRHE-DPT0233-023.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896	50	102		
NAL13041-311	CRHE-DPT0233-023.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896	50	96		
NAL13041-311	CRHE-DPT0233-023.0-20130403	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7896	50	92		

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NAL13041-312	CRHE-DPT0233-028.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895				
NAL13041-312	CRHE-DPT0233-028.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895				
NAL13041-312	CRHE-DPT0233-028.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895				
NAL13041-312	CRHE-DPT0233-028.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895				
NAL13041-312	CRHE-DPT0233-028.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895				
NAL13041-312	CRHE-DPT0233-028.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895				
NAL13041-312	CRHE-DPT0233-028.0-20130403	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895	50	110		
NAL13041-312	CRHE-DPT0233-028.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895	50	104		
NAL13041-312	CRHE-DPT0233-028.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895	50	96		
NAL13041-312	CRHE-DPT0233-028.0-20130403	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7895	50	94		

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NAL13041-314	CRHE-DPT0233-038.0-20130403	TRG	75-01-4	Vinyl Chloride	37	I	ug/L	100	13	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893				
NAL13041-314	CRHE-DPT0233-038.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893				
NAL13041-314	CRHE-DPT0233-038.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893				
NAL13041-314	CRHE-DPT0233-038.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	100	20	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893				
NAL13041-314	CRHE-DPT0233-038.0-20130403	TRG	79-01-6	Trichloroethene	83	I	ug/L	100	22	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893				
NAL13041-314	CRHE-DPT0233-038.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893				
NAL13041-314	CRHE-DPT0233-038.0-20130403	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893	50	112		
NAL13041-314	CRHE-DPT0233-038.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893	50	106		
NAL13041-314	CRHE-DPT0233-038.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893	50	96		
NAL13041-314	CRHE-DPT0233-038.0-20130403	SUR	460-00-4	Bromofluorobenzene	50		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7893	50	100		

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NAL13041-315	CRHE-DPT0233-043.0-20130403	TRG	75-01-4	Vinyl Chloride	600		ug/L	100	13	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892				
NAL13041-315	CRHE-DPT0233-043.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	100	18	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892				
NAL13041-315	CRHE-DPT0233-043.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	100	28	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892				
NAL13041-315	CRHE-DPT0233-043.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	97	I	ug/L	100	20	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892				
NAL13041-315	CRHE-DPT0233-043.0-20130403	TRG	79-01-6	Trichloroethene	28	I	ug/L	100	22	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892				
NAL13041-315	CRHE-DPT0233-043.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	100	16	4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892				
NAL13041-315	CRHE-DPT0233-043.0-20130403	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892	50	98		
NAL13041-315	CRHE-DPT0233-043.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892	50	90		
NAL13041-315	CRHE-DPT0233-043.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892	50	98		
NAL13041-315	CRHE-DPT0233-043.0-20130403	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	100	5.0	5.0	NA	SW8260B	NALP7892	50	90		

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NAL13041-317	CRHE-DPT0234-010.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906				
NAL13041-317	CRHE-DPT0234-010.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906				
NAL13041-317	CRHE-DPT0234-010.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906				
NAL13041-317	CRHE-DPT0234-010.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906				
NAL13041-317	CRHE-DPT0234-010.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906				
NAL13041-317	CRHE-DPT0234-010.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906				
NAL13041-317	CRHE-DPT0234-010.0-20130403	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906	50	112		
NAL13041-317	CRHE-DPT0234-010.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906	50	110		
NAL13041-317	CRHE-DPT0234-010.0-20130403	SUR	2037-26-5	Toluene d8	47		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906	50	94		
NAL13041-317	CRHE-DPT0234-010.0-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/3/2013	4/3/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7906	50	96		

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NAL13041-318	CRHE-DPT0234-018.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907				
NAL13041-318	CRHE-DPT0234-018.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907				
NAL13041-318	CRHE-DPT0234-018.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907				
NAL13041-318	CRHE-DPT0234-018.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907				
NAL13041-318	CRHE-DPT0234-018.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907				
NAL13041-318	CRHE-DPT0234-018.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907				
NAL13041-318	CRHE-DPT0234-018.0-20130403	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907	50	118		
NAL13041-318	CRHE-DPT0234-018.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907	50	116		
NAL13041-318	CRHE-DPT0234-018.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907	50	96		
NAL13041-318	CRHE-DPT0234-018.0-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7907	50	96		

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NAL13041-319	CRHE-DPT0234-023.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908				
NAL13041-319	CRHE-DPT0234-023.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908				
NAL13041-319	CRHE-DPT0234-023.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908				
NAL13041-319	CRHE-DPT0234-023.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908				
NAL13041-319	CRHE-DPT0234-023.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908				
NAL13041-319	CRHE-DPT0234-023.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908				
NAL13041-319	CRHE-DPT0234-023.0-20130403	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908	50	116		
NAL13041-319	CRHE-DPT0234-023.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908	50	110		
NAL13041-319	CRHE-DPT0234-023.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908	50	98		
NAL13041-319	CRHE-DPT0234-023.0-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7908	50	96		

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NAL13041-320	CRHE-DPT0234-028.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909				
NAL13041-320	CRHE-DPT0234-028.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909				
NAL13041-320	CRHE-DPT0234-028.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909				
NAL13041-320	CRHE-DPT0234-028.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909				
NAL13041-320	CRHE-DPT0234-028.0-20130403	TRG	79-01-6	Trichloroethene	2.2		ug/L	1.0	0.22	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909				
NAL13041-320	CRHE-DPT0234-028.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909				
NAL13041-320	CRHE-DPT0234-028.0-20130403	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909	50	108		
NAL13041-320	CRHE-DPT0234-028.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909	50	104		
NAL13041-320	CRHE-DPT0234-028.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909	50	98		
NAL13041-320	CRHE-DPT0234-028.0-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7909	50	96		

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NAL13041-321	CRHE-DPT0234-033.0-20130403	TRG	75-01-4	Vinyl Chloride	46		ug/L	1.0	0.13	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910				
NAL13041-321	CRHE-DPT0234-033.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910				
NAL13041-321	CRHE-DPT0234-033.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene	4.5		ug/L	1.0	0.28	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910				
NAL13041-321	CRHE-DPT0234-033.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910				
NAL13041-321	CRHE-DPT0234-033.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910				
NAL13041-321	CRHE-DPT0234-033.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910				
NAL13041-321	CRHE-DPT0234-033.0-20130403	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910	50	114		
NAL13041-321	CRHE-DPT0234-033.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910	50	116		
NAL13041-321	CRHE-DPT0234-033.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910	50	96		
NAL13041-321	CRHE-DPT0234-033.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7910	50	98		

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NAL13041-331	CRHE-DPT0235-038.0-20130404	TRG	75-01-4	Vinyl Chloride	470		ug/L	10	1.3	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923				
NAL13041-331	CRHE-DPT0235-038.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923				
NAL13041-331	CRHE-DPT0235-038.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene	5.7	I	ug/L	10	2.8	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923				
NAL13041-331	CRHE-DPT0235-038.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	25		ug/L	10	2.0	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923				
NAL13041-331	CRHE-DPT0235-038.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923				
NAL13041-331	CRHE-DPT0235-038.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923				
NAL13041-331	CRHE-DPT0235-038.0-20130404	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923	50	110		
NAL13041-331	CRHE-DPT0235-038.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923	50	108		
NAL13041-331	CRHE-DPT0235-038.0-20130404	SUR	2037-26-5	Toluene d8	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923	50	96		
NAL13041-331	CRHE-DPT0235-038.0-20130404	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7923	50	92		

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NAL13041-332	CRHE-DPT0235-043.0-20130404	TRG	75-01-4	Vinyl Chloride	1000		ug/L	10	1.3	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922				
NAL13041-332	CRHE-DPT0235-043.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922				
NAL13041-332	CRHE-DPT0235-043.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene	18		ug/L	10	2.8	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922				
NAL13041-332	CRHE-DPT0235-043.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922				
NAL13041-332	CRHE-DPT0235-043.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922				
NAL13041-332	CRHE-DPT0235-043.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922				
NAL13041-332	CRHE-DPT0235-043.0-20130404	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922	50	108		
NAL13041-332	CRHE-DPT0235-043.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922	50	106		
NAL13041-332	CRHE-DPT0235-043.0-20130404	SUR	2037-26-5	Toluene d8	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922	50	96		
NAL13041-332	CRHE-DPT0235-043.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7922	50	94		

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NAL13041-333	CRHE-DPT0235-058.0-20130404	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921				
NAL13041-333	CRHE-DPT0235-058.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921				
NAL13041-333	CRHE-DPT0235-058.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921				
NAL13041-333	CRHE-DPT0235-058.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921				
NAL13041-333	CRHE-DPT0235-058.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921				
NAL13041-333	CRHE-DPT0235-058.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921				
NAL13041-333	CRHE-DPT0235-058.0-20130404	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921	50	102		
NAL13041-333	CRHE-DPT0235-058.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921	50	98		
NAL13041-333	CRHE-DPT0235-058.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921	50	98		
NAL13041-333	CRHE-DPT0235-058.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7921	50	94		

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P040313CCVB	P040313CCVB	TRG	75-01-4	Vinyl Chloride	56		ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	112		
P040313CCVB	P040313CCVB	TRG	75-35-4	1,1-Dichloroethene	40		ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	80		
P040313CCVB	P040313CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	41		ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	82		
P040313CCVB	P040313CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	43		ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	86		
P040313CCVB	P040313CCVB	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	94		
P040313CCVB	P040313CCVB	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	100		
P040313CCVB	P040313CCVB	SUR	1868-53-7	Dibromofluoromethane	43		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	86		
P040313CCVB	P040313CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	39		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	78		
P040313CCVB	P040313CCVB	SUR	2037-26-5	Toluene d8	49		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	98		
P040313CCVB	P040313CCVB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7880	50	96		

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P040313MBKA	P040313MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881				
P040313MBKA	P040313MBKA	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	98		
P040313MBKA	P040313MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	108		
P040313MBKA	P040313MBKA	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	96		
P040313MBKA	P040313MBKA	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7881	50	94		

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P040313CCVC	P040313CCVC	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	120		
P040313CCVC	P040313CCVC	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	92		
P040313CCVC	P040313CCVC	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	108		
P040313CCVC	P040313CCVC	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	108		
P040313CCVC	P040313CCVC	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	102		
P040313CCVC	P040313CCVC	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	106		
P040313CCVC	P040313CCVC	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	104		
P040313CCVC	P040313CCVC	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	96		
P040313CCVC	P040313CCVC	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	102		
P040313CCVC	P040313CCVC	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/3/2013	4/3/2013	WQ	1	-	5.0	NA	SW8260B	NALP7901	50	94		

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P040313MBKB	P040313MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905				
P040313MBKB	P040313MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905				
P040313MBKB	P040313MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905				
P040313MBKB	P040313MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905				
P040313MBKB	P040313MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905				
P040313MBKB	P040313MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905				
P040313MBKB	P040313MBKB	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905	50	114		
P040313MBKB	P040313MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905	50	112		
P040313MBKB	P040313MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905	50	96		
P040313MBKB	P040313MBKB	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7905	50	94		

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P040313BLCS	P040313BLCS	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	114		
P040313BLCS	P040313BLCS	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	86		
P040313BLCS	P040313BLCS	TRG	156-60-5	Trans-1,2-Dichloroethene	48		ug/L	1.0	0.28	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	96		
P040313BLCS	P040313BLCS	TRG	156-59-2	Cis-1,2-Dichloroethene	50		ug/L	1.0	0.20	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	100		
P040313BLCS	P040313BLCS	TRG	79-01-6	Trichloroethene	47		ug/L	1.0	0.22	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	94		
P040313BLCS	P040313BLCS	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	100		
P040313BLCS	P040313BLCS	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	100		
P040313BLCS	P040313BLCS	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	92		
P040313BLCS	P040313BLCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	102		
P040313BLCS	P040313BLCS	SUR	460-00-4	Bromofluorobenzene	47		ug/L			NA	4/3/2013	4/3/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7904	50	94		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	TRG	75-01-4	Vinyl Chloride	57		ug/L	1.0	0.13	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	114		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	98		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	108		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	TRG	156-59-2	Cis-1,2-Dichloroethene	57		ug/L	1.0	0.20	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	114		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	96		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	102		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	SUR	1868-53-7	Dibromofluoromethane	50		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	100		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	94		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	SUR	2037-26-5	Toluene d8	50		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	100		
NAL13041-309MS	CRHE-DPT0233-010.0-20130403MS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7919	50	96		

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NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	TRG	75-01-4	Vinyl Chloride	52		ug/L	1.0	0.13	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	104	9	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	TRG	75-35-4	1,1-Dichloroethene	44		ug/L	1.0	0.18	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	88	11	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	46		ug/L	1.0	0.28	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	92	16	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	94	19	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	98	2	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	TRG	127-18-4	Tetrachloroethene	51		ug/L	1.0	0.16	4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	102	0	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	SUR	1868-53-7	Dibromofluoromethane	45		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	90	11	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	SUR	17060-07-0	1,2-Dichloroethane d4	41		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	82	14	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	98	2	
NAL13041-309MSD	CRHE-DPT0233-010.0-20130403MSD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7920	50	96	0	

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NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	TRG	75-01-4	Vinyl Chloride	1.7		ug/L	1.0	0.13	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928				
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928				
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	0.58	I	ug/L	1.0	0.28	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928				
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928				
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928				
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928				
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928	50	110		
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928	50	102		
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	SUR	2037-26-5	Toluene d8	49		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928	50	98		
NAL13041-290 RR	CRHE-DPT0230-038.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7928	50	94		

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NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929				
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929				
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929				
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929				
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929				
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929				
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929	50	108		
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929	50	102		
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	SUR	2037-26-5	Toluene d8	48		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929	50	96		
NAL13041-292 RR	CRHE-DPT0230-058.0-20130402	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/2/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7929	50	94		

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NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	TRG	75-01-4	Vinyl Chloride	0.82	I	ug/L	1.0	0.13	4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946				
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946				
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	TRG	156-60-5	Trans-1,2-Dichloroethene	1.2		ug/L	1.0	0.28	4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946				
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946				
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946				
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946				
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946	50	116		
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946	50	112		
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	SUR	2037-26-5	Toluene d8	48		ug/L			4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946	50	96		
NAL13041-296 RR	CRHE-DPT0231-033.0-20130402	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/2/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7946	50	96		

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NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	TRG	75-01-4	Vinyl Chloride	250		ug/L	10	1.3	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947				
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947				
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene	7.9	I	ug/L	10	2.8	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947				
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	230		ug/L	10	2.0	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947				
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	TRG	79-01-6	Trichloroethene	8.6	I	ug/L	10	2.2	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947				
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.60	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947				
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947	50	118		
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947	50	118		
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947	50	96		
NAL13041-306 RR	CRHE-DPT0232-038.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7947	50	98		

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ATTN: Ms. Jill Johnson

Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	TRG	75-01-4	Vinyl Chloride	210	U	ug/L	50	6.5	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948				
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948				
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene	26	I	ug/L	50	14	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948				
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	810		ug/L	50	10	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948				
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	TRG	79-01-6	Trichloroethene	24	I	ug/L	50	11	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948				
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948				
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948	50	98		
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948	50	104		
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948	50	98		
NAL13041-307 RR	CRHE-DPT0232-043.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7948	50	98		

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NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949				
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949				
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949				
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	1.1		ug/L	1.0	0.20	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949				
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	TRG	79-01-6	Trichloroethene	1.4		ug/L	1.0	0.22	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949				
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949				
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949	50	114		
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949	50	112		
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949	50	98		
NAL13041-310 RR	CRHE-DPT0233-018.0-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7949	50	96		

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NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950				
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950				
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950				
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950				
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950				
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950				
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950	50	118		
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950	50	116		
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	SUR	2037-26-5	Toluene d8	50		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950	50	100		
NAL13041-313 RR	CRHE-DPT0233-033.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7950	50	98		

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NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	TRG	75-01-4	Vinyl Chloride	700		ug/L	10	1.3	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951				
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951				
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene	20		ug/L	10	2.8	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951				
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	360		ug/L	10	2.0	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951				
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951				
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951				
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951	50	114		
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951	50	112		
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951	50	96		
NAL13041-322 RR	CRHE-DPT0234-038.0-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7951	50	96		

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NAL13041-327	CRHE-DPT0235-018.0-20130404	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927				
NAL13041-327	CRHE-DPT0235-018.0-20130404	TRG	75-35-4	1,1-Dichloroethene	0.84	I	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927				
NAL13041-327	CRHE-DPT0235-018.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927				
NAL13041-327	CRHE-DPT0235-018.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	0.77	I	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927				
NAL13041-327	CRHE-DPT0235-018.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927				
NAL13041-327	CRHE-DPT0235-018.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927				
NAL13041-327	CRHE-DPT0235-018.0-20130404	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927	50	112		
NAL13041-327	CRHE-DPT0235-018.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927	50	108		
NAL13041-327	CRHE-DPT0235-018.0-20130404	SUR	2037-26-5	Toluene d8	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927	50	96		
NAL13041-327	CRHE-DPT0235-018.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7927	50	94		

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NAL13041-328	CRHE-DPT0235-023.0-20130404	TRG	75-01-4	Vinyl Chloride	1.2		ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926				
NAL13041-328	CRHE-DPT0235-023.0-20130404	TRG	75-35-4	1,1-Dichloroethene	1.1		ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926				
NAL13041-328	CRHE-DPT0235-023.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926				
NAL13041-328	CRHE-DPT0235-023.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	0.69	I	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926				
NAL13041-328	CRHE-DPT0235-023.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926				
NAL13041-328	CRHE-DPT0235-023.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926				
NAL13041-328	CRHE-DPT0235-023.0-20130404	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926	50	114		
NAL13041-328	CRHE-DPT0235-023.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926	50	108		
NAL13041-328	CRHE-DPT0235-023.0-20130404	SUR	2037-26-5	Toluene d8	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926	50	96		
NAL13041-328	CRHE-DPT0235-023.0-20130404	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7926	50	96		

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NAL13041-329	CRHE-DPT0235-028.0-20130404	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925				
NAL13041-329	CRHE-DPT0235-028.0-20130404	TRG	75-35-4	1,1-Dichloroethene	0.65	I	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925				
NAL13041-329	CRHE-DPT0235-028.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925				
NAL13041-329	CRHE-DPT0235-028.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	0.89	I	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925				
NAL13041-329	CRHE-DPT0235-028.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925				
NAL13041-329	CRHE-DPT0235-028.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925				
NAL13041-329	CRHE-DPT0235-028.0-20130404	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925	50	110		
NAL13041-329	CRHE-DPT0235-028.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925	50	108		
NAL13041-329	CRHE-DPT0235-028.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925	50	98		
NAL13041-329	CRHE-DPT0235-028.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7925	50	94		

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NAL13041-330	CRHE-DPT0235-033.0-20130404	TRG	75-01-4	Vinyl Chloride	120		ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924				
NAL13041-330	CRHE-DPT0235-033.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924				
NAL13041-330	CRHE-DPT0235-033.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene	0.64	I	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924				
NAL13041-330	CRHE-DPT0235-033.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	7.4		ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924				
NAL13041-330	CRHE-DPT0235-033.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924				
NAL13041-330	CRHE-DPT0235-033.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924				
NAL13041-330	CRHE-DPT0235-033.0-20130404	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924	50	110		
NAL13041-330	CRHE-DPT0235-033.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924	50	108		
NAL13041-330	CRHE-DPT0235-033.0-20130404	SUR	2037-26-5	Toluene d8	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924	50	96		
NAL13041-330	CRHE-DPT0235-033.0-20130404	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7924	50	96		

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NAL13041-334	CRHE-DPT0236-010.0-20130404	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930				
NAL13041-334	CRHE-DPT0236-010.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930				
NAL13041-334	CRHE-DPT0236-010.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930				
NAL13041-334	CRHE-DPT0236-010.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930				
NAL13041-334	CRHE-DPT0236-010.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930				
NAL13041-334	CRHE-DPT0236-010.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930				
NAL13041-334	CRHE-DPT0236-010.0-20130404	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930	50	106		
NAL13041-334	CRHE-DPT0236-010.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930	50	100		
NAL13041-334	CRHE-DPT0236-010.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930	50	98		
NAL13041-334	CRHE-DPT0236-010.0-20130404	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7930	50	96		

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NAL13041-335	CRHE-DPT0236-018.0-20130404	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931				
NAL13041-335	CRHE-DPT0236-018.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931				
NAL13041-335	CRHE-DPT0236-018.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931				
NAL13041-335	CRHE-DPT0236-018.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931				
NAL13041-335	CRHE-DPT0236-018.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931				
NAL13041-335	CRHE-DPT0236-018.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931				
NAL13041-335	CRHE-DPT0236-018.0-20130404	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931	50	114		
NAL13041-335	CRHE-DPT0236-018.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931	50	110		
NAL13041-335	CRHE-DPT0236-018.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931	50	98		
NAL13041-335	CRHE-DPT0236-018.0-20130404	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7931	50	96		

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NAL13041-336	CRHE-DPT0236-023.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932				
NAL13041-336	CRHE-DPT0236-023.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932				
NAL13041-336	CRHE-DPT0236-023.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932				
NAL13041-336	CRHE-DPT0236-023.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932				
NAL13041-336	CRHE-DPT0236-023.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932				
NAL13041-336	CRHE-DPT0236-023.0-20130404	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932	50	118		
NAL13041-336	CRHE-DPT0236-023.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932	50	114		
NAL13041-336	CRHE-DPT0236-023.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932	50	98		
NAL13041-336	CRHE-DPT0236-023.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7932	50	94		

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NAL13041-337	CRHE-DPT0236-028.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933				
NAL13041-337	CRHE-DPT0236-028.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933				
NAL13041-337	CRHE-DPT0236-028.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933				
NAL13041-337	CRHE-DPT0236-028.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933				
NAL13041-337	CRHE-DPT0236-028.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933				
NAL13041-337	CRHE-DPT0236-028.0-20130404	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933	50	112		
NAL13041-337	CRHE-DPT0236-028.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933	50	108		
NAL13041-337	CRHE-DPT0236-028.0-20130404	SUR	2037-26-5	Toluene d8	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933	50	96		
NAL13041-337	CRHE-DPT0236-028.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7933	50	94		

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NAL13041-338	CRHE-DPT0236-033.0-20130404	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934				
NAL13041-338	CRHE-DPT0236-033.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934				
NAL13041-338	CRHE-DPT0236-033.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934				
NAL13041-338	CRHE-DPT0236-033.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934				
NAL13041-338	CRHE-DPT0236-033.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934				
NAL13041-338	CRHE-DPT0236-033.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934				
NAL13041-338	CRHE-DPT0236-033.0-20130404	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934	50	116		
NAL13041-338	CRHE-DPT0236-033.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934	50	112		
NAL13041-338	CRHE-DPT0236-033.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934	50	98		
NAL13041-338	CRHE-DPT0236-033.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7934	50	94		

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NAL13041-339	CRHE-DPT0236-038.0-20130404	TRG	75-01-4	Vinyl Chloride	480		ug/L	10	1.3	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935				
NAL13041-339	CRHE-DPT0236-038.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935				
NAL13041-339	CRHE-DPT0236-038.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene	14		ug/L	10	2.8	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935				
NAL13041-339	CRHE-DPT0236-038.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	19		ug/L	10	2.0	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935				
NAL13041-339	CRHE-DPT0236-038.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935				
NAL13041-339	CRHE-DPT0236-038.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935				
NAL13041-339	CRHE-DPT0236-038.0-20130404	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935	50	104		
NAL13041-339	CRHE-DPT0236-038.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935	50	102		
NAL13041-339	CRHE-DPT0236-038.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935	50	98		
NAL13041-339	CRHE-DPT0236-038.0-20130404	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7935	50	92		

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NAL13041-341	CRHE-DPT0236-058.0-20130404	TRG	75-01-4	Vinyl Chloride	5.5		ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937				
NAL13041-341	CRHE-DPT0236-058.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937				
NAL13041-341	CRHE-DPT0236-058.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937				
NAL13041-341	CRHE-DPT0236-058.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937				
NAL13041-341	CRHE-DPT0236-058.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937				
NAL13041-341	CRHE-DPT0236-058.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937				
NAL13041-341	CRHE-DPT0236-058.0-20130404	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937	50	106		
NAL13041-341	CRHE-DPT0236-058.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	53		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937	50	106		
NAL13041-341	CRHE-DPT0236-058.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937	50	98		
NAL13041-341	CRHE-DPT0236-058.0-20130404	SUR	460-00-4	Bromofluorobenzene	50		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7937	50	100		

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P040413CCVA	P040413CCVA	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	120		
P040413CCVA	P040413CCVA	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	92		
P040413CCVA	P040413CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	106		
P040413CCVA	P040413CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	104		
P040413CCVA	P040413CCVA	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	98		
P040413CCVA	P040413CCVA	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	108		
P040413CCVA	P040413CCVA	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	96		
P040413CCVA	P040413CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	90		
P040413CCVA	P040413CCVA	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	102		
P040413CCVA	P040413CCVA	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7917	50	96		

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P040413MBKA	P040413MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918				
P040413MBKA	P040413MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918				
P040413MBKA	P040413MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918				
P040413MBKA	P040413MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918				
P040413MBKA	P040413MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918				
P040413MBKA	P040413MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918				
P040413MBKA	P040413MBKA	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918	50	110		
P040413MBKA	P040413MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918	50	110		
P040413MBKA	P040413MBKA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918	50	94		
P040413MBKA	P040413MBKA	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7918	50	96		

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P040413CCVC	P040413CCVC	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	118		
P040413CCVC	P040413CCVC	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	92		
P040413CCVC	P040413CCVC	TRG	156-60-5	Trans-1,2-Dichloroethene	47		ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	94		
P040413CCVC	P040413CCVC	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	94		
P040413CCVC	P040413CCVC	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	100		
P040413CCVC	P040413CCVC	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	98		
P040413CCVC	P040413CCVC	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	96		
P040413CCVC	P040413CCVC	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	90		
P040413CCVC	P040413CCVC	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	100		
P040413CCVC	P040413CCVC	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	96		

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P040413MBKB	P040413MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	118		
P040413MBKB	P040413MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	112		
P040413MBKB	P040413MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	96		
P040413MBKB	P040413MBKB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	96		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Prep. Date	Analysis Date	Matrix	Dil.	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P040413ALCS	P040413ALCS	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	118		
P040413ALCS	P040413ALCS	TRG	75-35-4	1,1-Dichloroethene	52		ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	104		
P040413ALCS	P040413ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	58		ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	116		
P040413ALCS	P040413ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	58		ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	116		
P040413ALCS	P040413ALCS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	102		
P040413ALCS	P040413ALCS	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	104		
P040413ALCS	P040413ALCS	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	104		
P040413ALCS	P040413ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	98		
P040413ALCS	P040413ALCS	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	102		
P040413ALCS	P040413ALCS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7940	50	96		

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P040413ALCD	P040413ALCD	TRG	75-01-4	Vinyl Chloride	58		ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	116	2	
P040413ALCD	P040413ALCD	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	98	6	
P040413ALCD	P040413ALCD	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	106	9	
P040413ALCD	P040413ALCD	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	106	9	
P040413ALCD	P040413ALCD	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	102	0	
P040413ALCD	P040413ALCD	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	106	2	
P040413ALCD	P040413ALCD	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	102	2	
P040413ALCD	P040413ALCD	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	96	2	
P040413ALCD	P040413ALCD	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	102	0	
P040413ALCD	P040413ALCD	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7941	50	98	2	

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NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	TRG	75-01-4	Vinyl Chloride	63		ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	126		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	TRG	75-35-4	1,1-Dichloroethene	53		ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	106		0.84
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	TRG	156-60-5	Trans-1,2-Dichloroethene	55		ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	110		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	TRG	156-59-2	Cis-1,2-Dichloroethene	55		ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	110		0.77
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	102		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	104		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	104		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	SUR	17060-07-0	1,2-Dichloroethane d4	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	96		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	SUR	2037-26-5	Toluene d8	52		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	104		
NAL13041-327MS	CRHE-DPT0235-018.0-20130404MS	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7942	50	96		

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NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	TRG	75-01-4	Vinyl Chloride	61		ug/L	1.0	0.13	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	122	3	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	98	8	0.84
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	52		ug/L	1.0	0.28	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	104	6	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	52		ug/L	1.0	0.20	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	104	6	0.77
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	TRG	79-01-6	Trichloroethene	52		ug/L	1.0	0.22	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	104	2	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	108	4	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	96	8	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	88	9	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	SUR	2037-26-5	Toluene d8	50		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	100	4	
NAL13041-327MSD	CRHE-DPT0235-018.0-20130404MSD	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/4/2013	4/4/2013	4/4/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7943	50	96	0	

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NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	TRG	75-01-4	Vinyl Chloride	800		ug/L	50	6.5	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952				
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952				
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	50	14	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952				
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	2400		ug/L	50	10	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952				
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952				
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952				
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952	50	116		
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952	50	116		
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952	50	96		
NAL13041-323 RR	CRHE-DPT0234-043.0-20130403	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7952	50	94		

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NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	TRG	75-01-4	Vinyl Chloride	1.6		ug/L	1.0	0.13	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953				
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953				
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953				
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	4.8		ug/L	1.0	0.20	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953				
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953				
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953				
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	SUR	1868-53-7	Dibromofluoromethane	61		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953	50	122		
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	62		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953	50	124		
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	SUR	2037-26-5	Toluene d8	47		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953	50	94		
NAL13041-324 RR	CRHE-DPT0234-058.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7953	50	98		

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NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954				
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954				
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954				
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954				
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954				
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954				
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954	50	120		
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954	50	118		
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	SUR	2037-26-5	Toluene d8	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954	50	98		
NAL13041-325 RR	CRHE-DPT0235-010.0-20130403	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7954	50	98		

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NAL13041-326 RR	CRHE-IDW193864-20130403	TRG	75-01-4	Vinyl Chloride	26		ug/L	10	1.3	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955				
NAL13041-326 RR	CRHE-IDW193864-20130403	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955				
NAL13041-326 RR	CRHE-IDW193864-20130403	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955				
NAL13041-326 RR	CRHE-IDW193864-20130403	TRG	156-59-2	Cis-1,2-Dichloroethene	130		ug/L	10	2.0	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955				
NAL13041-326 RR	CRHE-IDW193864-20130403	TRG	79-01-6	Trichloroethene	29		ug/L	10	2.2	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955				
NAL13041-326 RR	CRHE-IDW193864-20130403	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955				
NAL13041-326 RR	CRHE-IDW193864-20130403	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955	50	120		
NAL13041-326 RR	CRHE-IDW193864-20130403	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955	50	116		
NAL13041-326 RR	CRHE-IDW193864-20130403	SUR	2037-26-5	Toluene d8	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955	50	96		
NAL13041-326 RR	CRHE-IDW193864-20130403	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7955	50	96		

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NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	TRG	75-01-4	Vinyl Chloride	2200		ug/L	50	6.5	4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963				
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	50	9.0	4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963				
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	TRG	156-60-5	Trans-1,2-Dichloroethene	120		ug/L	50	14	4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963				
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	TRG	156-59-2	Cis-1,2-Dichloroethene	5200		ug/L	50	10	4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963				
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	TRG	79-01-6	Trichloroethene		U	ug/L	50	11	4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963				
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	TRG	127-18-4	Tetrachloroethene		U	ug/L	50	8.0	4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963				
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963	50	104		
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963	50	102		
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	SUR	2037-26-5	Toluene d8	49		ug/L			4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963	50	98		
NAL13041-340 RR	CRHE-DPT0236-043.0-20130404	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/4/2013	4/5/2013	4/5/2013	GW	50	5.0	5.0	NA	SW8260B	NALP7963	50	94		

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NAL13041-342	CRHE-DPT0237-010.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964				
NAL13041-342	CRHE-DPT0237-010.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964				
NAL13041-342	CRHE-DPT0237-010.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964				
NAL13041-342	CRHE-DPT0237-010.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964				
NAL13041-342	CRHE-DPT0237-010.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964				
NAL13041-342	CRHE-DPT0237-010.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964				
NAL13041-342	CRHE-DPT0237-010.0-20130405	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964	50	108		
NAL13041-342	CRHE-DPT0237-010.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964	50	102		
NAL13041-342	CRHE-DPT0237-010.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964	50	98		
NAL13041-342	CRHE-DPT0237-010.0-20130405	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7964	50	98		

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NAL13041-343	CRHE-DPT0237-018.0-20130405	TRG	75-01-4	Vinyl Chloride	0.65	I	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965				
NAL13041-343	CRHE-DPT0237-018.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965				
NAL13041-343	CRHE-DPT0237-018.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965				
NAL13041-343	CRHE-DPT0237-018.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965				
NAL13041-343	CRHE-DPT0237-018.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965				
NAL13041-343	CRHE-DPT0237-018.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965				
NAL13041-343	CRHE-DPT0237-018.0-20130405	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965	50	106		
NAL13041-343	CRHE-DPT0237-018.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965	50	104		
NAL13041-343	CRHE-DPT0237-018.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965	50	98		
NAL13041-343	CRHE-DPT0237-018.0-20130405	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7965	50	98		

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NAL13041-344	CRHE-DPT0237-023.0-20130405	TRG	75-01-4	Vinyl Chloride	0.60	I	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966				
NAL13041-344	CRHE-DPT0237-023.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966				
NAL13041-344	CRHE-DPT0237-023.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966				
NAL13041-344	CRHE-DPT0237-023.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	0.81	I	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966				
NAL13041-344	CRHE-DPT0237-023.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966				
NAL13041-344	CRHE-DPT0237-023.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966				
NAL13041-344	CRHE-DPT0237-023.0-20130405	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966	50	106		
NAL13041-344	CRHE-DPT0237-023.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966	50	102		
NAL13041-344	CRHE-DPT0237-023.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966	50	98		
NAL13041-344	CRHE-DPT0237-023.0-20130405	SUR	460-00-4	Bromofluorobenzene	46		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7966	50	92		

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NAL13041-345	CRHE-DPT0237-028.0-20130405	TRG	75-01-4	Vinyl Chloride	0.45	I	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967				
NAL13041-345	CRHE-DPT0237-028.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967				
NAL13041-345	CRHE-DPT0237-028.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967				
NAL13041-345	CRHE-DPT0237-028.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	0.94	I	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967				
NAL13041-345	CRHE-DPT0237-028.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967				
NAL13041-345	CRHE-DPT0237-028.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967				
NAL13041-345	CRHE-DPT0237-028.0-20130405	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967	50	118		
NAL13041-345	CRHE-DPT0237-028.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967	50	114		
NAL13041-345	CRHE-DPT0237-028.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967	50	96		
NAL13041-345	CRHE-DPT0237-028.0-20130405	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7967	50	98		

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NAL13041-346	CRHE-DPT0237-033.0-20130405	TRG	75-01-4	Vinyl Chloride	110		ug/L	10	1.3	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968				
NAL13041-346	CRHE-DPT0237-033.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968				
NAL13041-346	CRHE-DPT0237-033.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968				
NAL13041-346	CRHE-DPT0237-033.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968				
NAL13041-346	CRHE-DPT0237-033.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968				
NAL13041-346	CRHE-DPT0237-033.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968				
NAL13041-346	CRHE-DPT0237-033.0-20130405	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968	50	116		
NAL13041-346	CRHE-DPT0237-033.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968	50	114		
NAL13041-346	CRHE-DPT0237-033.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968	50	98		
NAL13041-346	CRHE-DPT0237-033.0-20130405	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7968	50	96		

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NAL13041-347	CRHE-DPT0237-038.0-20130405	TRG	75-01-4	Vinyl Chloride	1900		ug/L	10	1.3	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969				
NAL13041-347	CRHE-DPT0237-038.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969				
NAL13041-347	CRHE-DPT0237-038.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene	16		ug/L	10	2.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969				
NAL13041-347	CRHE-DPT0237-038.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	19		ug/L	10	2.0	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969				
NAL13041-347	CRHE-DPT0237-038.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969				
NAL13041-347	CRHE-DPT0237-038.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969				
NAL13041-347	CRHE-DPT0237-038.0-20130405	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969	50	116		
NAL13041-347	CRHE-DPT0237-038.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969	50	112		
NAL13041-347	CRHE-DPT0237-038.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969	50	96		
NAL13041-347	CRHE-DPT0237-038.0-20130405	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7969	50	98		

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NAL13041-348	CRHE-DPT0237-043.0-20130405	TRG	75-01-4	Vinyl Chloride	1300		ug/L	10	1.3	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970				
NAL13041-348	CRHE-DPT0237-043.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970				
NAL13041-348	CRHE-DPT0237-043.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene	13		ug/L	10	2.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970				
NAL13041-348	CRHE-DPT0237-043.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970				
NAL13041-348	CRHE-DPT0237-043.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970				
NAL13041-348	CRHE-DPT0237-043.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10.0	1.6	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970				
NAL13041-348	CRHE-DPT0237-043.0-20130405	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970	50	112		
NAL13041-348	CRHE-DPT0237-043.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	54		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970	50	108		
NAL13041-348	CRHE-DPT0237-043.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970	50	96		
NAL13041-348	CRHE-DPT0237-043.0-20130405	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7970	50	96		

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NAL13041-349	CRHE-DPT0237-058.0-20130405	TRG	75-01-4	Vinyl Chloride	0.70	I	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971				
NAL13041-349	CRHE-DPT0237-058.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971				
NAL13041-349	CRHE-DPT0237-058.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971				
NAL13041-349	CRHE-DPT0237-058.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971				
NAL13041-349	CRHE-DPT0237-058.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971				
NAL13041-349	CRHE-DPT0237-058.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971				
NAL13041-349	CRHE-DPT0237-058.0-20130405	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971	50	116		
NAL13041-349	CRHE-DPT0237-058.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971	50	116		
NAL13041-349	CRHE-DPT0237-058.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971	50	96		
NAL13041-349	CRHE-DPT0237-058.0-20130405	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7971	50	98		

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NAL13041-350	CRHE-DPT0238-010.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972				
NAL13041-350	CRHE-DPT0238-010.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972				
NAL13041-350	CRHE-DPT0238-010.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972				
NAL13041-350	CRHE-DPT0238-010.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972				
NAL13041-350	CRHE-DPT0238-010.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972				
NAL13041-350	CRHE-DPT0238-010.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972				
NAL13041-350	CRHE-DPT0238-010.0-20130405	SUR	1868-53-7	Dibromofluoromethane	47		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972	50	94		
NAL13041-350	CRHE-DPT0238-010.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972	50	88		
NAL13041-350	CRHE-DPT0238-010.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972	50	98		
NAL13041-350	CRHE-DPT0238-010.0-20130405	SUR	460-00-4	Bromofluorobenzene	45		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7972	50	90		

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NAL13041-351	CRHE-DPT0238-018.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973				
NAL13041-351	CRHE-DPT0238-018.0-20130405	TRG	75-35-4	1,1-Dichloroethene	2.2		ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973				
NAL13041-351	CRHE-DPT0238-018.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973				
NAL13041-351	CRHE-DPT0238-018.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	0.85	I	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973				
NAL13041-351	CRHE-DPT0238-018.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973				
NAL13041-351	CRHE-DPT0238-018.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973				
NAL13041-351	CRHE-DPT0238-018.0-20130405	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973	50	118		
NAL13041-351	CRHE-DPT0238-018.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973	50	114		
NAL13041-351	CRHE-DPT0238-018.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973	50	98		
NAL13041-351	CRHE-DPT0238-018.0-20130405	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7973	50	96		

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NAL13041-352	CRHE-DPT0238-023.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974				
NAL13041-352	CRHE-DPT0238-023.0-20130405	TRG	75-35-4	1,1-Dichloroethene	2.0		ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974				
NAL13041-352	CRHE-DPT0238-023.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974				
NAL13041-352	CRHE-DPT0238-023.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	0.90	I	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974				
NAL13041-352	CRHE-DPT0238-023.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974				
NAL13041-352	CRHE-DPT0238-023.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974				
NAL13041-352	CRHE-DPT0238-023.0-20130405	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974	50	112		
NAL13041-352	CRHE-DPT0238-023.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	55		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974	50	110		
NAL13041-352	CRHE-DPT0238-023.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974	50	98		
NAL13041-352	CRHE-DPT0238-023.0-20130405	SUR	460-00-4	Bromofluorobenzene	47		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7974	50	94		

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NAL13041-353	CRHE-DPT0238-028.0-20130405	TRG	75-01-4	Vinyl Chloride	0.41	I	ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975				
NAL13041-353	CRHE-DPT0238-028.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975				
NAL13041-353	CRHE-DPT0238-028.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975				
NAL13041-353	CRHE-DPT0238-028.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	0.76	I	ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975				
NAL13041-353	CRHE-DPT0238-028.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975				
NAL13041-353	CRHE-DPT0238-028.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975				
NAL13041-353	CRHE-DPT0238-028.0-20130405	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975	50	120		
NAL13041-353	CRHE-DPT0238-028.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	61		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975	50	122		
NAL13041-353	CRHE-DPT0238-028.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975	50	98		
NAL13041-353	CRHE-DPT0238-028.0-20130405	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7975	50	98		

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NAL13041-354	CRHE-DPT0238-033.0-20130405	TRG	75-01-4	Vinyl Chloride	5.2	I	ug/L	10	1.3	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976				
NAL13041-354	CRHE-DPT0238-033.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976				
NAL13041-354	CRHE-DPT0238-033.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976				
NAL13041-354	CRHE-DPT0238-033.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976				
NAL13041-354	CRHE-DPT0238-033.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976				
NAL13041-354	CRHE-DPT0238-033.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976				
NAL13041-354	CRHE-DPT0238-033.0-20130405	SUR	1868-53-7	Dibromofluoromethane	60		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976	50	120		
NAL13041-354	CRHE-DPT0238-033.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976	50	118		
NAL13041-354	CRHE-DPT0238-033.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976	50	96		
NAL13041-354	CRHE-DPT0238-033.0-20130405	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7976	50	96		

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NAL13041-355	CRHE-DPT0238-038.0-20130405	TRG	75-01-4	Vinyl Chloride	38		ug/L	10	1.3	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977				
NAL13041-355	CRHE-DPT0238-038.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977				
NAL13041-355	CRHE-DPT0238-038.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977				
NAL13041-355	CRHE-DPT0238-038.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	9.7	I	ug/L	10	2.0	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977				
NAL13041-355	CRHE-DPT0238-038.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977				
NAL13041-355	CRHE-DPT0238-038.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977				
NAL13041-355	CRHE-DPT0238-038.0-20130405	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977	50	114		
NAL13041-355	CRHE-DPT0238-038.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	57		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977	50	114		
NAL13041-355	CRHE-DPT0238-038.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977	50	96		
NAL13041-355	CRHE-DPT0238-038.0-20130405	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7977	50	96		

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NAL13041-356	CRHE-DPT0238-043.0-20130405	TRG	75-01-4	Vinyl Chloride	89		ug/L	10	1.3	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978				
NAL13041-356	CRHE-DPT0238-043.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978				
NAL13041-356	CRHE-DPT0238-043.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978				
NAL13041-356	CRHE-DPT0238-043.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978				
NAL13041-356	CRHE-DPT0238-043.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978				
NAL13041-356	CRHE-DPT0238-043.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978				
NAL13041-356	CRHE-DPT0238-043.0-20130405	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978	50	106		
NAL13041-356	CRHE-DPT0238-043.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	59		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978	50	118		
NAL13041-356	CRHE-DPT0238-043.0-20130405	SUR	2037-26-5	Toluene d8	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978	50	96		
NAL13041-356	CRHE-DPT0238-043.0-20130405	SUR	460-00-4	Bromofluorobenzene	48		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	10	5.0	5.0	NA	SW8260B	NALP7978	50	96		

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P040413CCVC	P040413CCVC	TRG	75-01-4	Vinyl Chloride	59		ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	118		
P040413CCVC	P040413CCVC	TRG	75-35-4	1,1-Dichloroethene	46		ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	92		
P040413CCVC	P040413CCVC	TRG	156-60-5	Trans-1,2-Dichloroethene	47		ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	94		
P040413CCVC	P040413CCVC	TRG	156-59-2	Cis-1,2-Dichloroethene	47		ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	94		
P040413CCVC	P040413CCVC	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	100		
P040413CCVC	P040413CCVC	TRG	127-18-4	Tetrachloroethene	49		ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	98		
P040413CCVC	P040413CCVC	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	96		
P040413CCVC	P040413CCVC	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	90		
P040413CCVC	P040413CCVC	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	100		
P040413CCVC	P040413CCVC	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	-	5.0	NA	SW8260B	NALP7938	50	96		

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P040413MBKB	P040413MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944				
P040413MBKB	P040413MBKB	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	118		
P040413MBKB	P040413MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	56		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	112		
P040413MBKB	P040413MBKB	SUR	2037-26-5	Toluene d8	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	96		
P040413MBKB	P040413MBKB	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/4/2013	4/4/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7944	50	96		

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P040513CCVA	P040513CCVA	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	120		
P040513CCVA	P040513CCVA	TRG	75-35-4	1,1-Dichloroethene	53		ug/L	1.0	0.18	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	106		
P040513CCVA	P040513CCVA	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	106		
P040513CCVA	P040513CCVA	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	106		
P040513CCVA	P040513CCVA	TRG	79-01-6	Trichloroethene	50		ug/L	1.0	0.22	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	100		
P040513CCVA	P040513CCVA	TRG	127-18-4	Tetrachloroethene	55		ug/L	1.0	0.16	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	110		
P040513CCVA	P040513CCVA	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	98		
P040513CCVA	P040513CCVA	SUR	17060-07-0	1,2-Dichloroethane d4	44		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	88		
P040513CCVA	P040513CCVA	SUR	2037-26-5	Toluene d8	51		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	102		
P040513CCVA	P040513CCVA	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7958	50	96		

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P040513MBKA	P040513MBKA	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962				
P040513MBKA	P040513MBKA	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962				
P040513MBKA	P040513MBKA	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962				
P040513MBKA	P040513MBKA	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962				
P040513MBKA	P040513MBKA	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962				
P040513MBKA	P040513MBKA	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962				
P040513MBKA	P040513MBKA	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962	50	102		
P040513MBKA	P040513MBKA	SUR	17060-07-0	1,2-Dichloroethane d4	49		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962	50	98		
P040513MBKA	P040513MBKA	SUR	2037-26-5	Toluene d8	49		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962	50	98		
P040513MBKA	P040513MBKA	SUR	460-00-4	Bromofluorobenzene	48		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7962	50	96		

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P040513ALCS	P040513ALCS	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	120		
P040513ALCS	P040513ALCS	TRG	75-35-4	1,1-Dichloroethene	54		ug/L	1.0	0.18	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	108		
P040513ALCS	P040513ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	54		ug/L	1.0	0.28	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	108		
P040513ALCS	P040513ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	54		ug/L	1.0	0.20	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	108		
P040513ALCS	P040513ALCS	TRG	79-01-6	Trichloroethene	49		ug/L	1.0	0.22	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	98		
P040513ALCS	P040513ALCS	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	104		
P040513ALCS	P040513ALCS	SUR	1868-53-7	Dibromofluoromethane	48		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	96		
P040513ALCS	P040513ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	45		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	90		
P040513ALCS	P040513ALCS	SUR	2037-26-5	Toluene d8	49		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	98		
P040513ALCS	P040513ALCS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7959	50	100		

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NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	TRG	75-01-4	Vinyl Chloride	63		ug/L	1.0	0.13	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	126		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	TRG	75-35-4	1,1-Dichloroethene	51		ug/L	1.0	0.18	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	102		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	TRG	156-60-5	Trans-1,2-Dichloroethene	50		ug/L	1.0	0.28	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	100		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	102		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	TRG	79-01-6	Trichloroethene	48		ug/L	1.0	0.22	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	96		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	TRG	127-18-4	Tetrachloroethene	54		ug/L	1.0	0.16	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	108		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	98		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	SUR	17060-07-0	1,2-Dichloroethane d4	46		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	92		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	SUR	2037-26-5	Toluene d8	52		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	104		
NAL13041-325MS	CRHE-DPT0235-010.0-20130403MS	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7960	50	98		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	TRG	75-01-4	Vinyl Chloride	62		ug/L	1.0	0.13	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	124	2	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	TRG	75-35-4	1,1-Dichloroethene	51		ug/L	1.0	0.18	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	102	0	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	53		ug/L	1.0	0.28	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	106	6	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	106	4	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	TRG	79-01-6	Trichloroethene	45		ug/L	1.0	0.22	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	90	6	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	104	4	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	98	0	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	94	2	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	SUR	2037-26-5	Toluene d8	51		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	102	2	
NAL13041-325MSD	CRHE-DPT0235-010.0-20130403MSD	SUR	460-00-4	Bromofluorobenzene	49		ug/L			4/3/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7961	50	98	0	

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NAL13041-357	CRHE-DPT0238-058.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987				
NAL13041-357	CRHE-DPT0238-058.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987				
NAL13041-357	CRHE-DPT0238-058.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987				
NAL13041-357	CRHE-DPT0238-058.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987				
NAL13041-357	CRHE-DPT0238-058.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987				
NAL13041-357	CRHE-DPT0238-058.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987				
NAL13041-357	CRHE-DPT0238-058.0-20130405	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987	50	102		
NAL13041-357	CRHE-DPT0238-058.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987	50	130		
NAL13041-357	CRHE-DPT0238-058.0-20130405	SUR	2037-26-5	Toluene d8	50		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987	50	100		
NAL13041-357	CRHE-DPT0238-058.0-20130405	SUR	460-00-4	Bromofluorobenzene	55		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7987	50	110		

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NAL13041-358	CRHE-DPT0239-010.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988				
NAL13041-358	CRHE-DPT0239-010.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988				
NAL13041-358	CRHE-DPT0239-010.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988				
NAL13041-358	CRHE-DPT0239-010.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988				
NAL13041-358	CRHE-DPT0239-010.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988				
NAL13041-358	CRHE-DPT0239-010.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988				
NAL13041-358	CRHE-DPT0239-010.0-20130405	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988	50	118		
NAL13041-358	CRHE-DPT0239-010.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	67		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988	50	134		
NAL13041-358	CRHE-DPT0239-010.0-20130405	SUR	2037-26-5	Toluene d8	50		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988	50	100		
NAL13041-358	CRHE-DPT0239-010.0-20130405	SUR	460-00-4	Bromofluorobenzene	53		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7988	50	106		

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NAL13041-359	CRHE-DPT0239-018.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989				
NAL13041-359	CRHE-DPT0239-018.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989				
NAL13041-359	CRHE-DPT0239-018.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989				
NAL13041-359	CRHE-DPT0239-018.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989				
NAL13041-359	CRHE-DPT0239-018.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989				
NAL13041-359	CRHE-DPT0239-018.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989				
NAL13041-359	CRHE-DPT0239-018.0-20130405	SUR	1868-53-7	Dibromofluoromethane	59		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989	50	118		
NAL13041-359	CRHE-DPT0239-018.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	65		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989	50	130		
NAL13041-359	CRHE-DPT0239-018.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989	50	98		
NAL13041-359	CRHE-DPT0239-018.0-20130405	SUR	460-00-4	Bromofluorobenzene	53		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7989	50	106		

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NAL13041-360	CRHE-DPT0239-0230.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990				
NAL13041-360	CRHE-DPT0239-0230.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990				
NAL13041-360	CRHE-DPT0239-0230.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990				
NAL13041-360	CRHE-DPT0239-0230.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990				
NAL13041-360	CRHE-DPT0239-0230.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990				
NAL13041-360	CRHE-DPT0239-0230.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990				
NAL13041-360	CRHE-DPT0239-0230.0-20130405	SUR	1868-53-7	Dibromofluoromethane	62		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990	50	124		
NAL13041-360	CRHE-DPT0239-0230.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	72		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990	50	144		
NAL13041-360	CRHE-DPT0239-0230.0-20130405	SUR	2037-26-5	Toluene d8	50		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990	50	100		
NAL13041-360	CRHE-DPT0239-0230.0-20130405	SUR	460-00-4	Bromofluorobenzene	54		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7990	50	108		

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NAL13041-361	CRHE-DPT0239-028.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991				
NAL13041-361	CRHE-DPT0239-028.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991				
NAL13041-361	CRHE-DPT0239-028.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991				
NAL13041-361	CRHE-DPT0239-028.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991				
NAL13041-361	CRHE-DPT0239-028.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991				
NAL13041-361	CRHE-DPT0239-028.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991				
NAL13041-361	CRHE-DPT0239-028.0-20130405	SUR	1868-53-7	Dibromofluoromethane	63		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991	50	126		
NAL13041-361	CRHE-DPT0239-028.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	71		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991	50	142		
NAL13041-361	CRHE-DPT0239-028.0-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991	50	98		
NAL13041-361	CRHE-DPT0239-028.0-20130405	SUR	460-00-4	Bromofluorobenzene	54		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7991	50	108		

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NAL13041-362	CRHE-DPT0239-033.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003				
NAL13041-362	CRHE-DPT0239-033.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003				
NAL13041-362	CRHE-DPT0239-033.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003				
NAL13041-362	CRHE-DPT0239-033.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003				
NAL13041-362	CRHE-DPT0239-033.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003				
NAL13041-362	CRHE-DPT0239-033.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003				
NAL13041-362	CRHE-DPT0239-033.0-20130405	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003	50	98		
NAL13041-362	CRHE-DPT0239-033.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003	50	104		
NAL13041-362	CRHE-DPT0239-033.0-20130405	SUR	2037-26-5	Toluene d8	46		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003	50	92		
NAL13041-362	CRHE-DPT0239-033.0-20130405	SUR	460-00-4	Bromofluorobenzene	51		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8003	50	102		

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NAL13041-363	CRHE-DPT0239-038.0-20130405	TRG	75-01-4	Vinyl Chloride	540		ug/L	10	1.3	4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004				
NAL13041-363	CRHE-DPT0239-038.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	10	1.8	4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004				
NAL13041-363	CRHE-DPT0239-038.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	10	2.8	4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004				
NAL13041-363	CRHE-DPT0239-038.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	10	2.0	4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004				
NAL13041-363	CRHE-DPT0239-038.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	10	2.2	4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004				
NAL13041-363	CRHE-DPT0239-038.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	10	1.6	4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004				
NAL13041-363	CRHE-DPT0239-038.0-20130405	SUR	1868-53-7	Dibromofluoromethane	56		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004	50	112		
NAL13041-363	CRHE-DPT0239-038.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004	50	116		
NAL13041-363	CRHE-DPT0239-038.0-20130405	SUR	2037-26-5	Toluene d8	47		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004	50	94		
NAL13041-363	CRHE-DPT0239-038.0-20130405	SUR	460-00-4	Bromofluorobenzene	52		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	10	5.0	5.0	NA	SW8260B	NALP8004	50	104		

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NAL13041-364	CRHE-DPT0239-043.0-20130405	TRG	75-01-4	Vinyl Chloride	62		ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005				
NAL13041-364	CRHE-DPT0239-043.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005				
NAL13041-364	CRHE-DPT0239-043.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005				
NAL13041-364	CRHE-DPT0239-043.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	3.7		ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005				
NAL13041-364	CRHE-DPT0239-043.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005				
NAL13041-364	CRHE-DPT0239-043.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005				
NAL13041-364	CRHE-DPT0239-043.0-20130405	SUR	1868-53-7	Dibromofluoromethane	51		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005	50	102		
NAL13041-364	CRHE-DPT0239-043.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005	50	104		
NAL13041-364	CRHE-DPT0239-043.0-20130405	SUR	2037-26-5	Toluene d8	50		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005	50	100		
NAL13041-364	CRHE-DPT0239-043.0-20130405	SUR	460-00-4	Bromofluorobenzene	50		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8005	50	100		

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NAL13041-365	CRHE-DPT0239-058.0-20130405	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006				
NAL13041-365	CRHE-DPT0239-058.0-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006				
NAL13041-365	CRHE-DPT0239-058.0-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006				
NAL13041-365	CRHE-DPT0239-058.0-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006				
NAL13041-365	CRHE-DPT0239-058.0-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006				
NAL13041-365	CRHE-DPT0239-058.0-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006				
NAL13041-365	CRHE-DPT0239-058.0-20130405	SUR	1868-53-7	Dibromofluoromethane	57		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006	50	114		
NAL13041-365	CRHE-DPT0239-058.0-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006	50	116		
NAL13041-365	CRHE-DPT0239-058.0-20130405	SUR	2037-26-5	Toluene d8	47		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006	50	94		
NAL13041-365	CRHE-DPT0239-058.0-20130405	SUR	460-00-4	Bromofluorobenzene	51		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8006	50	102		

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NAL13041-366	CRHE-IDW193865-20130405	TRG	75-01-4	Vinyl Chloride	19		ug/L	1.0	0.13	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007				
NAL13041-366	CRHE-IDW193865-20130405	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007				
NAL13041-366	CRHE-IDW193865-20130405	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007				
NAL13041-366	CRHE-IDW193865-20130405	TRG	156-59-2	Cis-1,2-Dichloroethene	23		ug/L	1.0	0.20	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007				
NAL13041-366	CRHE-IDW193865-20130405	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007				
NAL13041-366	CRHE-IDW193865-20130405	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007				
NAL13041-366	CRHE-IDW193865-20130405	SUR	1868-53-7	Dibromofluoromethane	55		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007	50	110		
NAL13041-366	CRHE-IDW193865-20130405	SUR	17060-07-0	1,2-Dichloroethane d4	58		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007	50	116		
NAL13041-366	CRHE-IDW193865-20130405	SUR	2037-26-5	Toluene d8	49		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007	50	98		
NAL13041-366	CRHE-IDW193865-20130405	SUR	460-00-4	Bromofluorobenzene	51		ug/L			4/5/2013	4/6/2013	4/6/2013	GW	1	5.0	5.0	NA	SW8260B	NALP8007	50	102		

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P040513CCVB	P040513CCVB	TRG	75-01-4	Vinyl Chloride	60		ug/L	1.0	0.13	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	120		
P040513CCVB	P040513CCVB	TRG	75-35-4	1,1-Dichloroethene	43		ug/L	1.0	0.18	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	86		
P040513CCVB	P040513CCVB	TRG	156-60-5	Trans-1,2-Dichloroethene	43		ug/L	1.0	0.28	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	86		
P040513CCVB	P040513CCVB	TRG	156-59-2	Cis-1,2-Dichloroethene	53		ug/L	1.0	0.20	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	106		
P040513CCVB	P040513CCVB	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	106		
P040513CCVB	P040513CCVB	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	106		
P040513CCVB	P040513CCVB	SUR	1868-53-7	Dibromofluoromethane	49		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	98		
P040513CCVB	P040513CCVB	SUR	17060-07-0	1,2-Dichloroethane d4	47		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	94		
P040513CCVB	P040513CCVB	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	100		
P040513CCVB	P040513CCVB	SUR	460-00-4	Bromofluorobenzene	49		ug/L			NA	4/5/2013	4/5/2013	WQ	1	-	5.0	NA	SW8260B	NALP7982	50	98		

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FINAL ANALYTICAL REPORT

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Pensacola, FL 32502
ATTN: Ms. Jill Johnson

Project #: NAL13-041
Project Site: NASA, Kennedy Space Center

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P040513MBKB	P040513MBKB	TRG	75-01-4	Vinyl Chloride		U	ug/L	1.0	0.13	NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985				
P040513MBKB	P040513MBKB	TRG	75-35-4	1,1-Dichloroethene		U	ug/L	1.0	0.18	NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985				
P040513MBKB	P040513MBKB	TRG	156-60-5	Trans-1,2-Dichloroethene		U	ug/L	1.0	0.28	NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985				
P040513MBKB	P040513MBKB	TRG	156-59-2	Cis-1,2-Dichloroethene		U	ug/L	1.0	0.20	NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985				
P040513MBKB	P040513MBKB	TRG	79-01-6	Trichloroethene		U	ug/L	1.0	0.22	NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985				
P040513MBKB	P040513MBKB	TRG	127-18-4	Tetrachloroethene		U	ug/L	1.0	0.16	NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985				
P040513MBKB	P040513MBKB	SUR	1868-53-7	Dibromofluoromethane	58		ug/L			NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985	50	116		
P040513MBKB	P040513MBKB	SUR	17060-07-0	1,2-Dichloroethane d4	64		ug/L			NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985	50	128		
P040513MBKB	P040513MBKB	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985	50	100		
P040513MBKB	P040513MBKB	SUR	460-00-4	Bromofluorobenzene	52		ug/L			NA	4/6/2013	4/6/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7985	50	104		

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P040613ICVA	P040613ICVA	TRG	75-01-4	Vinyl Chloride	48		ug/L	1.0	0.13	NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	96		
P040613ICVA	P040613ICVA	TRG	75-35-4	1,1-Dichloroethene	58		ug/L	1.0	0.18	NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	116		
P040613ICVA	P040613ICVA	TRG	156-60-5	Trans-1,2-Dichloroethene	59		ug/L	1.0	0.28	NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	118		
P040613ICVA	P040613ICVA	TRG	156-59-2	Cis-1,2-Dichloroethene	57		ug/L	1.0	0.20	NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	114		
P040613ICVA	P040613ICVA	TRG	79-01-6	Trichloroethene	54		ug/L	1.0	0.22	NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	108		
P040613ICVA	P040613ICVA	TRG	127-18-4	Tetrachloroethene	50		ug/L	1.0	0.16	NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	100		
P040613ICVA	P040613ICVA	SUR	1868-53-7	Dibromofluoromethane	52		ug/L			NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	104		
P040613ICVA	P040613ICVA	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	102		
P040613ICVA	P040613ICVA	SUR	2037-26-5	Toluene d8	47		ug/L			NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	94		
P040613ICVA	P040613ICVA	SUR	460-00-4	Bromofluorobenzene	53		ug/L			NA	4/6/2013	4/6/2013	WQ	1	-	5.0	NA	SW8260B	NALP8002	50	106		

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Lab ID:	Sample ID:		CAS #	ANALYTES	Results	QC	Units	RL	MDL	Sample Date	Preparation Date	Analysis Date	Matrix	Dilution	Sample Vol. (ml)	Final Vol. (ml)	% Solid	Method	Data file	Spike	% Rec	% RPD	Parent
P040513ALCS	P040513ALCS	TRG	75-01-4	Vinyl Chloride	65		ug/L	1.0	0.13	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	130		
P040513ALCS	P040513ALCS	TRG	75-35-4	1,1-Dichloroethene	47		ug/L	1.0	0.18	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	94		
P040513ALCS	P040513ALCS	TRG	156-60-5	Trans-1,2-Dichloroethene	57		ug/L	1.0	0.28	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	114		
P040513ALCS	P040513ALCS	TRG	156-59-2	Cis-1,2-Dichloroethene	58		ug/L	1.0	0.20	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	116		
P040513ALCS	P040513ALCS	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	106		
P040513ALCS	P040513ALCS	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	106		
P040513ALCS	P040513ALCS	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	108		
P040513ALCS	P040513ALCS	SUR	17060-07-0	1,2-Dichloroethane d4	51		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	102		
P040513ALCS	P040513ALCS	SUR	2037-26-5	Toluene d8	50		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	100		
P040513ALCS	P040513ALCS	SUR	460-00-4	Bromofluorobenzene	50		ug/L			NA	4/5/2013	4/5/2013	WQ	1	5.0	5.0	NA	SW8260B	NALP7980	50	100		

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NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	TRG	75-01-4	Vinyl Chloride	63		ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	126		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	TRG	75-35-4	1,1-Dichloroethene	45		ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	90		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	TRG	156-60-5	Trans-1,2-Dichloroethene	42		ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	84		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	TRG	156-59-2	Cis-1,2-Dichloroethene	51		ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	102		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	TRG	79-01-6	Trichloroethene	51		ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	102		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	TRG	127-18-4	Tetrachloroethene	52		ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	104		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	SUR	1868-53-7	Dibromofluoromethane	53		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	106		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	SUR	17060-07-0	1,2-Dichloroethane d4	50		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	100		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	SUR	2037-26-5	Toluene d8	50		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	100		
NAL13041-358MS	CRHE-DPT0239-010.0-20130405MS	SUR	460-00-4	Bromofluorobenzene	52		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7983	50	104		

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NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	TRG	75-01-4	Vinyl Chloride	65		ug/L	1.0	0.13	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	130	3	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	TRG	75-35-4	1,1-Dichloroethene	49		ug/L	1.0	0.18	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	98	9	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	TRG	156-60-5	Trans-1,2-Dichloroethene	57		ug/L	1.0	0.28	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	114	30	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	TRG	156-59-2	Cis-1,2-Dichloroethene	56		ug/L	1.0	0.20	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	112	9	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	TRG	79-01-6	Trichloroethene	53		ug/L	1.0	0.22	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	106	4	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	TRG	127-18-4	Tetrachloroethene	53		ug/L	1.0	0.16	4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	106	2	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	SUR	1868-53-7	Dibromofluoromethane	54		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	108	2	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	SUR	17060-07-0	1,2-Dichloroethane d4	52		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	104	4	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	SUR	2037-26-5	Toluene d8	51		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	102	2	
NAL13041-358MSD	CRHE-DPT0239-010.0-20130405MSD	SUR	460-00-4	Bromofluorobenzene	50		ug/L			4/5/2013	4/5/2013	4/5/2013	GW	1	5.0	5.0	NA	SW8260B	NALP7984	50	100	4	

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May 31, 2013

Lauren Petty
Geosyntec Consultants
316 South Baylen Street
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report- KB3
KB Labs Project # 13-76

Dear Ms. Petty:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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Gainesville, FL 32608
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PROJECT NARRATIVE

Project Scope

From May 21 to 24, 2013, a total of 113 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per Client instruction, KB Labs reports all samples to the laboratory MDL. Values between the PQL and MDL are reported with an I FDEP Data Qualifier.

3. VC result for sample DPT0251-038.0 was changed from 1100 ug/L to 570 ug/L.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 5/21/13-5/24/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	05/20/13	90	97	115	102	Pass	Pass	> UCL	Pass
LCS 20	05/20/13	90	97	104	104	Pass	Pass	Pass	Pass
METHOD BLANK	05/20/13	98	105	94	104	Pass	Pass	Pass	Pass
CRHE-DPT0240-010.0	05/20/13	94	95	103	102	Pass	Pass	Pass	Pass
CRHE-DPT0240-018.0	05/20/13	95	98	103	101	Pass	Pass	Pass	Pass
CRHE-DPT0240-023.0	05/20/13	91	94	103	103	Pass	Pass	Pass	Pass
CRHE-DPT0240-028.0	05/20/13	85	94	113	103	Pass	Pass	Pass	Pass
CRHE-DPT0240-033.0	05/20/13	92	97	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0240-038.0	05/20/13	93	101	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0240-043.0	05/20/13	89	95	103	103	Pass	Pass	Pass	Pass
CRHE-DPT0240-058.0	05/20/13	94	102	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0241-010.0	05/20/13	95	102	97	99	Pass	Pass	Pass	Pass
CRHE-DPT0241-018.0	05/20/13	89	99	103	100	Pass	Pass	Pass	Pass
CRHE-DPT0241-023.0	05/20/13	94	103	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0241-028.0	05/20/13	92	101	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0241-033.0	05/20/13	96	101	102	96	Pass	Pass	Pass	Pass
CRHE-DPT0241-038.0	05/20/13	96	101	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0241-043.0	05/20/13	93	100	95	99	Pass	Pass	Pass	Pass
CRHE-DPT0241-058.0	05/20/13	100	107	99	96	Pass	Pass	Pass	Pass
CRHE-DPT0242-018.0	05/20/13	93	106	100	101	Pass	Pass	Pass	Pass
CRHE-DPT0242-023.0	05/20/13	95	100	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0242-028.0	05/20/13	92	100	93	103	Pass	Pass	Pass	Pass
CRHE-DPT0242-033.0	05/20/13	90	99	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0242-038.0	05/20/13	93	98	96	114	Pass	Pass	Pass	Pass
CRHE-DPT0242-043.0 1:50	05/20/13	91	94	109	104	Pass	Pass	Pass	Pass
CRHE-DPT0242-048.0 1:50	05/20/13	89	96	105	107	Pass	Pass	Pass	Pass
CRHE-DPT0240-058.0 MS	05/20/13	88	99	104	114	Pass	Pass	Pass	Pass
CRHE-DPT0240-058.0 MSD	05/20/13	88	90	105	107	Pass	Pass	Pass	Pass
CRHE-DPT0241-010.0 MS	05/20/13	91	98	103	106	Pass	Pass	Pass	Pass
CRHE-DPT0241-010.0 MSD	05/20/13	89	94	103	108	Pass	Pass	Pass	Pass
CCS 20	05/20/13	90	94	105	109	Pass	Pass	Pass	Pass
CCS 20	05/21/13	90	104	103	105	Pass	Pass	Pass	Pass
LCS 20	05/21/13	91	98	104	107	Pass	Pass	Pass	Pass
METHOD BLANK	05/21/13	94	101	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0242-058.0	05/21/13	93	98	112	109	Pass	Pass	Pass	Pass
CRHE-DPT0242-043.0 1:100	05/21/13	91	96	114	106	Pass	Pass	Pass	Pass
CRHE-DPT0243-018.0	05/21/13	92	97	106	114	Pass	Pass	Pass	Pass
CRHE-DPT0243-023.0	05/21/13	93	97	103	107	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 5/21/13-5/24/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0243-028.0	05/21/13	94	99	106	107	Pass	Pass	Pass	Pass
CRHE-DPT0243-033.0 1:50	05/21/13	91	99	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0243-038.0 1:50	05/21/13	87	104	95	110	Pass	Pass	Pass	Pass
CRHE-DPT0243-043.0 1:50	05/21/13	93	100	104	104	Pass	Pass	Pass	Pass
CRHE-DPT0243-048.0 1:50	05/21/13	92	98	104	105	Pass	Pass	Pass	Pass
CRHE-DPT0243-058.0	05/21/13	93	99	107	104	Pass	Pass	Pass	Pass
CRHE-DPT0244-018.0	05/21/13	91	91	114	103	Pass	Pass	Pass	Pass
CRHE-DPT0244-023.0	05/21/13	95	99	111	104	Pass	Pass	Pass	Pass
CRHE-DPT0244-028.0	05/21/13	90	95	103	105	Pass	Pass	Pass	Pass
CRHE-DPT0244-033.0	05/21/13	94	104	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0244-038.0 1:50	05/21/13	96	101	103	104	Pass	Pass	Pass	Pass
CRHE-DPT0244-043.0 1:100	05/21/13	93	101	108	103	Pass	Pass	Pass	Pass
CRHE-DPT0244-048.0 1:50	05/21/13	93	101	103	102	Pass	Pass	Pass	Pass
CRHE-DPT0244-058.0 1:5	05/21/13	92	100	100	108	Pass	Pass	Pass	Pass
CRHE-DPT0242-068.0	05/21/13	93	99	102	102	Pass	Pass	Pass	Pass
CRHE-DPT0245-018.0	05/21/13	98	102	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0245-023.0	05/21/13	95	101	103	105	Pass	Pass	Pass	Pass
CRHE-DPT0243-018.0 MS	05/21/13	91	95	103	104	Pass	Pass	Pass	Pass
CRHE-DPT0243-018.0 MSD	05/21/13	90	104	102	103	Pass	Pass	Pass	Pass
CCS 20	05/21/13	93	101	100	102	Pass	Pass	Pass	Pass
CCS 20	05/22/13	91	96	106	103	Pass	Pass	Pass	Pass
LCS 20	05/22/13	92	105	102	105	Pass	Pass	Pass	Pass
METHOD BLANK	05/22/13	100	101	103	104	Pass	Pass	Pass	Pass
CRHE-DPT0245-028.0	05/22/13	95	100	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0245-033.0	05/22/13	98	105	108	105	Pass	Pass	Pass	Pass
CRHE-DPT0245-038.0	05/22/13	90	101	93	105	Pass	Pass	Pass	Pass
CRHE-DPT0245-043.0	05/22/13	100	101	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0245-048.0	05/22/13	114	113	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0245-058.0	05/22/13	101	109	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0228-048.0	05/22/13	132	135	98	98	> UCL	> UCL	Pass	Pass
CRHE-DPT0246-010.0	05/22/13	103	110	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0246-018.0	05/22/13	101	106	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0246-023.0	05/22/13	101	107	96	97	Pass	Pass	Pass	Pass
CRHE-DPT0246-028.0	05/22/13	97	104	101	95	Pass	Pass	Pass	Pass
CRHE-DPT0246-033.0	05/22/13	96	103	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0246-038.0	05/22/13	95	100	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0246-043.0	05/22/13	93	102	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0246-058.0	05/22/13	98	109	96	96	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 5/21/13-5/24/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0245-038.0 1:50	05/22/13	95	109	95	87	Pass	Pass	Pass	Pass
CRHE-DPT0245-043.0 1:50	05/22/13	99	110	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0245-048.0 1:50	05/22/13	101	110	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0228-048.0 1:100	05/22/13	100	111	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0246-010.0 RPT	05/22/13	95	102	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0247-010.0	05/22/13	97	108	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0247-018.0 1:100	05/22/13	116	121	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0247-023.0 1:500	05/22/13	104	110	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0247-028.0 1:50	05/22/13	98	109	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0247-033.0 1:100	05/22/13	105	109	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0247-038.0 1:1000	05/22/13	103	108	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0247-043.0 1:100	05/22/13	98	107	101	95	Pass	Pass	Pass	Pass
CRHE-DPT0247-058.0 1:10	05/22/13	101	110	101	94	Pass	Pass	Pass	Pass
CRHE-DPT0248-010.0	05/22/13	97	105	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0248-018.0	05/22/13	96	103	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0248-023.0	05/22/13	101	109	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0248-028.0	05/22/13	96	104	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0248-033.0	05/22/13	97	104	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0248-038.0	05/22/13	100	103	103	113	Pass	Pass	Pass	Pass
CRHE-DPT0248-043.0	05/22/13	94	102	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0248-058.0	05/22/13	92	101	101	105	Pass	Pass	Pass	Pass
CRHE-DPT0246-043.0 MS	05/22/13	94	100	104	102	Pass	Pass	Pass	Pass
CRHE-DPT0246-043.0 MSD	05/22/13	93	98	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0246-058.0 MS	05/22/13	95	102	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0246-058.0 MSD	05/22/13	100	104	109	104	Pass	Pass	Pass	Pass
CCS 20	05/22/13	88	97	111	115	Pass	Pass	Pass	Pass
CCS 20	05/23/13	96	101	102	105	Pass	Pass	Pass	Pass
LCS 20	05/23/13	94	110	106	107	Pass	Pass	Pass	Pass
METHOD BLANK	05/23/13	97	101	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0247-018.0 1:200	05/23/13	99	109	107	102	Pass	Pass	Pass	Pass
CRHE-DPT0247-023.0 1:1000	05/23/13	92	105	105	102	Pass	Pass	Pass	Pass
CRHE-DPT0247-028.0 1:100	05/23/13	103	114	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0247-043.0 1:500	05/23/13	102	113	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0226-048.0 1:10	05/23/13	112	117	93	93	Pass	Pass	Pass	Pass
CRHE-DPT0244-068.0	05/23/13	100	111	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0231-048.0	05/23/13	131	138	99	93	> UCL	> UCL	Pass	Pass
CRHE-DPT0230-048.0	05/23/13	122	121	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0249-010.0	05/23/13	102	116	99	93	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 5/21/13-5/24/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0249-018.0	05/23/13	101	117	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0249-023.0	05/23/13	108	117	97	91	Pass	Pass	Pass	Pass
CRHE-DPT0249-028.0	05/23/13	107	117	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0226-048.0 1:100	05/23/13	100	118	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0231-048.0 1:100	05/23/13	105	120	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0230-048.0 1:50	05/23/13	99	114	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0249-010.0 RPT	05/23/13	111	119	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0249-033.0	05/23/13	106	116	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0249-038.0	05/23/13	110	114	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0249-043.0	05/23/13	103	115	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0249-058.0	05/23/13	103	112	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0247-068.0	05/23/13	104	117	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0250-010.0	05/23/13	106	114	96	92	Pass	Pass	Pass	Pass
CRHE-DPT0250-018.0	05/23/13	108	114	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0250-023.0	05/23/13	103	109	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0250-028.0	05/23/13	100	114	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0250-033.0	05/23/13	105	115	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0250-038.0	05/23/13	102	112	95	99	Pass	Pass	Pass	Pass
CRHE-DPT0250-043.0	05/23/13	125	125	97	96	Pass	Pass	Pass	Pass
CRHE-DPT0250-058.0	05/23/13	100	109	97	98	Pass	Pass	Pass	Pass
CRHE-DPT0251-010.0	05/23/13	98	112	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0251-018.0	05/23/13	100	112	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0251-023.0	05/23/13	99	108	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0251-028.0	05/23/13	99	108	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0251-033.0	05/23/13	96	104	101	109	Pass	Pass	Pass	Pass
CRHE-DPT0251-038.0	05/23/13	99	105	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0251-043.0	05/23/13	97	102	102	101	Pass	Pass	Pass	Pass
CRHE-DPT0251-058.0	05/23/13	95	102	104	107	Pass	Pass	Pass	Pass
CRHE-DPT0249-043.0 MS	05/23/13	95	98	104	104	Pass	Pass	Pass	Pass
CRHE-DPT0249-043.0 MSD	05/23/13	96	109	96	104	Pass	Pass	Pass	Pass
CRHE-DPT0249-058.0 MS	05/23/13	96	111	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0249-058.0 MSD	05/23/13	94	102	105	107	Pass	Pass	Pass	Pass
CCS 20	05/23/13	97	104	102	106	Pass	Pass	Pass	Pass
CCS 20	05/24/13	102	108	109	103	Pass	Pass	Pass	Pass
LCS 20	05/24/13	98	105	98	106	Pass	Pass	Pass	Pass
METHOD BLANK	05/24/13	97	104	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0250-058.0 RPT	05/24/13	101	105	96	104	Pass	Pass	Pass	Pass
CRHE-DPT0250-043.0 1:100	05/24/13	100	108	106	106	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 12-163
On-site Dates: 5/21/13-5/24/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0252-058.0	05/24/13	100	109	106	107	Pass	Pass	Pass	Pass
CRHE-DPT0252-043.0	05/24/13	102	112	100	104	Pass	Pass	Pass	Pass
CRHE-DPT0251-038.0 1:20	05/24/13	104	110	98	111	Pass	Pass	Pass	Pass
CRHE-DPT0252-010.0	05/24/13	102	115	104	101	Pass	Pass	Pass	Pass
CRHE-DPT0252-018.0	05/24/13	101	109	105	101	Pass	Pass	Pass	Pass
CRHE-DPT0252-023.0	05/24/13	106	120	93	95	Pass	Pass	Pass	Pass
CRHE-DPT0252-028.0	05/24/13	107	119	96	100	Pass	Pass	Pass	Pass
CRHE-DPT0252-033.0	05/24/13	106	116	91	94	Pass	Pass	Pass	Pass
CRHE-DPT0252-038.0	05/24/13	108	124	93	91	Pass	Pass	Pass	Pass
CRHE-DPT0252-058.0 MS	05/24/13	109	127	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0252-058.0 MSD	05/24/13	113	124	94	95	Pass	Pass	Pass	Pass
CRHE-IDW190492 1:10	05/24/13	106	125	95	94	Pass	Pass	Pass	Pass
CRHE-IDW190491 1:10	05/24/13	110	124	93	95	Pass	Pass	Pass	Pass
CCS 20	05/24/13	124	127	94	94	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-163
Onsite Dates: 5/21/13-5/24/13	**Client Project Manager:** Lauren Petty	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0240-058.0 **Date of Analysis:** 5/20/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	84	81	3	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	137	122	12	> UCL	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	116	109	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	107	105	2	Pass	Pass	Pass
Trichloroethene	67	128	20	130	127	2	> UCL	Pass	Pass
Tetrachloroethene	60	140	20	142	146	3	> UCL	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0241-010.0 **Date of Analysis:** 5/20/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	79	79	1	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	137	115	17	> UCL	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	111	103	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	107	106	1	Pass	Pass	Pass
Trichloroethene	67	128	20	127	125	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	145	140	3	> UCL	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0243-018.0 **Date of Analysis:** 5/21/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	76	70	8	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	128	121	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	110	100	9	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	109	99	9	Pass	Pass	Pass
Trichloroethene	67	128	20	131	118	10	> UCL	Pass	Pass
Tetrachloroethene	60	140	20	146	134	9	> UCL	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0246-043.0 **Date of Analysis:** 5/22/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	78	72	8	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	134	127	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	119	100	17	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	112	104	8	Pass	Pass	Pass
Trichloroethene	67	128	20	142	126	12	> UCL	Pass	Pass
Tetrachloroethene	60	140	20	150	141	6	> UCL	> UCL	Pass

Note:

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Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-163
Onsite Dates: 5/21/13-5/24/13	**Client Project Manager:** Lauren Petty	**Matrix**: Water

Samples: CRHE-DPT0246-058.0 **Date of Analysis:** 5/22/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	74	85	13	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	130	145	11	Pass	> UCL	Pass
Trans-1,2-Dichloroethene	63	131	20	111	110	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	103	114	9	Pass	Pass	Pass
Trichloroethene	67	128	20	123	131	6	Pass	> UCL	Pass
Tetrachloroethene	60	140	20	145	142	2	> UCL	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0249-043.0 **Date of Analysis:** 5/23/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	84	86	2	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	143	149	5	> UCL	> UCL	Pass
Trans-1,2-Dichloroethene	63	131	20	113	117	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	112	111	1	Pass	Pass	Pass
Trichloroethene	67	128	20	134	134	1	> UCL	> UCL	Pass
Tetrachloroethene	60	140	20	163	153	6	> UCL	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0249-058.0 **Date of Analysis:** 5/23/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	88	84	5	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	143	145	2	> UCL	> UCL	Pass
Trans-1,2-Dichloroethene	63	131	20	119	115	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	114	108	5	Pass	Pass	Pass
Trichloroethene	67	128	20	138	133	4	> UCL	> UCL	Pass
Tetrachloroethene	60	140	20	157	161	3	> UCL	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0252-058.0 **Date of Analysis:** 5/24/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	74	85	13	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	91	112	21	Pass	Pass	> RPDL
Trans-1,2-Dichloroethene	63	131	20	120	113	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	114	121	6	Pass	Pass	Pass
Trichloroethene	67	128	20	121	129	7	Pass	> UCL	Pass
Tetrachloroethene	60	140	20	130	136	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 12-163
Onsite Dates: 5/21/13-5/24/13	**Client Project Manager:** Lauren Petty	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 5/20/2013
LCS 2 — 5/21/2013
LCS 3 — 5/22/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS 1	LCS 2	LCS 3	LCS 1	LCS 2	LCS 3
Vinyl Chloride	58	to	135	87	80	82	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	132	126	116	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	108	97	93	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	103	102	96	Pass	Pass	Pass
Trichloroethene	68	to	128	131	117	111	> UCL	Pass	Pass
Tetrachloroethene	67	to	135	142	137	128	> UCL	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 5/23/2013
LCS 5 — 5/24/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS 4	LCS 5		LCS 4	LCS 5	
Vinyl Chloride	58	to	135	68	80		Pass	Pass	
1,1-Dichloroethene	60	to	141	126	138		Pass	Pass	
Trans-1,2-Dichloroethene	62	to	133	96	111		Pass	Pass	
Cis-1,2-Dichloroethene	62	to	140	99	109		Pass	Pass	
Trichloroethene	68	to	128	114	125		Pass	Pass	
Tetrachloroethene	67	to	135	143	143		> UCL	> UCL	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0240-010.0-20130520	5/20/2013	09:36	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0240-018.0-20130520	5/20/2013	09:50	Water	1	**0.45 I**	0.30 U	0.29 U	**0.41 I**	0.19 U	0.23 U
CRHE-DPT0240-023.0-20130520	5/20/2013	10:02	Water	1	**1.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0240-028.0-20130520	5/20/2013	10:12	Water	1	**0.31 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0240-033.0-20130520	5/20/2013	10:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0240-038.0-20130520	5/20/2013	10:36	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0240-043.0-20130520	5/20/2013	10:46	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0240-058.0-20130520	5/20/2013	10:56	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-010.0-20130520	5/20/2013	11:40	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-018.0-20130520	5/20/2013	11:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-023.0-20130520	5/20/2013	12:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-028.0-20130520	5/20/2013	12:56	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-033.0-20130520	5/20/2013	13:06	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-038.0-20130520	5/20/2013	13:16	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-043.0-20130520	5/20/2013	13:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0241-058.0-20130520	5/20/2013	13:46	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0242-018.0-20130520	5/20/2013	14:40	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0242-023.0-20130520	5/20/2013	14:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0242-028.0-20130520	5/20/2013	15:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0242-033.0-20130520	5/20/2013	15:10	Water	1	**0.28 I**	0.30 U	0.29 U	**2.6**	0.19 U	0.23 U
CRHE-DPT0242-038.0-20130520	5/20/2013	15:42	Water	1	**8.9**	0.30 U	**1.6**	**3.6**	0.19 U	0.23 U
CRHE-DPT0242-043.0-20130520	5/20/2013	15:52	Water	50, 100	**3400**	**16 I**	**310**	**3300**	**18 I**	12 U
CRHE-DPT0242-048.0-20130520	5/20/2013	16:02	Water	50	**420**	15 U	**190**	**5200**	**1800**	12 U
CRHE-DPT0242-058.0-20130520	5/21/2013	16:30	Water	1	**1.9**	0.30 U	**0.88 I**	**30.8**	**9.5**	0.23 U
CRHE-DPT0242-068.0-20130521	5/21/2013	14:35	Water	1	0.26 U	0.30 U	0.29 U	**3.2**	**1.0**	0.23 U
CRHE-DPT0243-018.0-20130521	5/21/2013	08:15	Water	1	0.26 U	0.30 U	0.29 U	**0.44 I**	0.19 U	0.23 U
CRHE-DPT0243-023.0-20130521	5/21/2013	08:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0243-028.0-20130521	5/21/2013	08:36	Water	1	**0.92 I**	0.30 U	**1.3**	**1.4**	**1.5**	0.23 U
CRHE-DPT0243-033.0-20130521	5/21/2013	08:46	Water	50	**1100**	15 U	**63**	**560**	9.5 U	12 U
CRHE-DPT0243-038.0-20130521	5/21/2013	08:56	Water	50	**510**	15 U	**86**	**2600**	9.5 U	12 U
CRHE-DPT0243-043.0-20130521	5/21/2013	09:06	Water	50	**330**	15 U	**140**	**4900**	**130**	12 U
CRHE-DPT0243-048.0-20130521	5/21/2013	09:16	Water	50	**270**	15 U	**110**	**3700**	**480**	12 U

Reporting units for waters are ug/L and for soils are mg/kg.

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0243-058.0-20130521	5/21/2013	09:56	Water	1	0.26 U	0.30 U	0.29 U	**2.3**	0.19 U	0.23 U
CRHE-DPT0244-018.0-20130521	5/21/2013	12:15	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0244-023.0-20130521	5/21/2013	12:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0244-028.0-20130521	5/21/2013	12:36	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0244-033.0-20130521	5/21/2013	12:50	Water	1	0.26 U	0.30 U	**0.62 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0244-038.0-20130521	5/21/2013	13:02	Water	50	**990**	15 U	**120**	**5000**	**25 I**	12 U
CRHE-DPT0244-043.0-20130521	5/21/2013	13:12	Water	100	**840**	30 U	**240**	**9000**	**1100**	23 U
CRHE-DPT0244-048.0-20130521	5/21/2013	13:26	Water	50	**590**	15 U	**180**	**5700**	**1100**	12 U
CRHE-DPT0244-058.0-20130521	5/21/2013	13:36	Water	5	**10**	1.5 U	**3.0 I**	**110**	**11**	1.2 U
CRHE-DPT0245-018.0-20130521	5/21/2013	15:15	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0245-023.0-20130521	5/21/2013	15:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0245-028.0-20130522	5/22/2013	07:30	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0245-033.0-20130522	5/22/2013	07:42	Water	1	**1.5**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0245-038.0-20130522	5/22/2013	07:56	Water	1, 50	**2400**	0.30 U	**11.0**	0.22 U	0.19 U	0.23 U
CRHE-DPT0245-043.0-20130522	5/22/2013	08:10	Water	1, 50	**1300**	**5.4**	**31.2**	**760**	**110**	0.23 U
CRHE-DPT0245-048.0-20130522	5/22/2013	08:24	Water	1, 50	**940**	**5.1**	**44.2**	**1300**	**110**	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

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Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0245-058.0-20130522	5/22/2013	08:34	Water	1	**6.5**	0.30 U	**0.33 I**	**12.4**	0.19 U	0.23 U
CRHE-DPT0228-048.0-20130522	5/22/2013	09:10	Water	1, 100	**760**	**12.2**	**300**	**8100**	**2600**	0.23 U
CRHE-DPT0246-010.0-20130522	5/22/2013	09:36	Water	1	0.26 U	0.30 U	0.29 U	**1.1**	0.19 U	0.23 U
CRHE-DPT0246-018.0-20130522	5/22/2013	09:46	Water	1	**0.33 I**	0.30 U	0.29 U	**4.9**	**1.4**	0.23 U
CRHE-DPT0246-023.0-20130522	5/22/2013	09:58	Water	1	**0.41 I**	0.30 U	0.29 U	**1.8**	**0.45 I**	0.23 U
CRHE-DPT0246-028.0-20130522	5/22/2013	10:10	Water	1	0.26 U	0.30 U	0.29 U	**0.80 I**	0.19 U	0.23 U
CRHE-DPT0246-033.0-20130522	5/22/2013	10:20	Water	1	0.26 U	0.30 U	0.29 U	**0.51 I**	0.19 U	0.23 U
CRHE-DPT0246-038.0-20130522	5/22/2013	10:30	Water	1	0.26 U	0.30 U	0.29 U	**0.45 I**	0.19 U	0.23 U
CRHE-DPT0246-043.0-20130522	5/22/2013	10:40	Water	1	0.26 U	0.30 U	0.29 U	**0.35 I**	0.19 U	0.23 U
CRHE-DPT0246-058.0-20130522	5/22/2013	10:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0247-010.0-20130522	5/22/2013	11:16	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0247-018.0-20130522	5/22/2013	11:26	Water	100, 200	**1200**	30 U	**430**	**12000**	19 U	23 U
CRHE-DPT0247-023.0-20130522	5/22/2013	11:36	Water	500, 1000	**3200**	150 U	**2300**	**53000**	**450 I**	120 U
CRHE-DPT0247-028.0-20130522	5/22/2013	11:46	Water	50, 100	**2600**	15 U	**250**	**2800**	**16 I**	12 U
CRHE-DPT0247-033.0-20130522	5/22/2013	11:56	Water	100	**580**	30 U	**170**	**10000**	**5100**	23 U

Reporting units for waters are ug/L and for soils are mg/kg.

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Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0247-038.0-20130522	5/22/2013	12:06	Water	1000	**5800**	300 U	**580 I**	**55000**	**81000**	230 U
CRHE-DPT0247-043.0-20130522	5/22/2013	12:16	Water	100, 500	**1500**	30 U	**110**	**15000**	**19000**	23 U
CRHE-DPT0247-058.0-20130522	5/22/2013	12:26	Water	10	**34**	3.0 U	**9.0 I**	**920**	**750**	2.3 U
CRHE-DPT0248-010.0-20130522	5/22/2013	14:16	Water	1	0.26 U	0.30 U	0.29 U	**0.64 I**	**0.41 I**	0.23 U
CRHE-DPT0248-018.0-20130522	5/22/2013	14:28	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0248-023.0-20130522	5/22/2013	14:39	Water	1	0.26 U	0.30 U	0.29 U	**1.5**	**1.2**	0.23 U
CRHE-DPT0248-028.0-20130522	5/22/2013	14:50	Water	1	0.26 U	0.30 U	0.29 U	**6.3**	**9.2**	0.23 U
CRHE-DPT0248-033.0-20130522	5/22/2013	15:00	Water	1	0.26 U	0.30 U	0.29 U	**0.31 I**	**0.47 I**	0.23 U
CRHE-DPT0248-038.0-20130522	5/22/2013	15:10	Water	1	0.26 U	0.30 U	0.29 U	**3.0**	0.19 U	0.23 U
CRHE-DPT0248-043.0-20130522	5/22/2013	15:20	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0248-058.0-20130522	5/22/2013	15:32	Water	1	0.26 U	0.30 U	0.29 U	**1.5**	**2.3**	0.23 U
CRHE-DPT0226-048.0-20130523	5/23/2013	08:00	Water	10, 100	**140**	3.0 U	**37**	**1700**	**32**	2.3 U
CRHE-DPT0244-068.0-20130523	5/23/2013	08:40	Water	1	**0.58 I**	0.30 U	0.29 U	**7.4**	**0.74 I**	0.23 U
CRHE-DPT0231-048.0-20130523	5/23/2013	09:10	Water	1, 100	**590**	**6.3**	**200**	**6100**	**990**	0.23 U
CRHE-DPT0230-048.0-20130523	5/23/2013	10:02	Water	1, 50	**94.5**	**1.0**	**28.6**	**810**	**10.2**	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

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Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0249-010.0-20130523	5/23/2013	10:38	Water	1	**0.45 I**	0.30 U	0.29 U	**0.63 I**	0.19 U	0.23 U
CRHE-DPT0249-018.0-20130523	5/23/2013	10:48	Water	1	**23.5**	0.30 U	0.29 U	**3.4**	**0.55 I**	0.23 U
CRHE-DPT0249-023.0-20130523	5/23/2013	11:00	Water	1	0.26 U	0.30 U	0.29 U	**2.3**	**0.53 I**	0.23 U
CRHE-DPT0249-028.0-20130523	5/23/2013	11:08	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	**0.66 I**	0.23 U
CRHE-DPT0249-033.0-20130523	5/23/2013	11:24	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0249-038.0-20130523	5/23/2013	11:36	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0249-043.0-20130523	5/23/2013	11:48	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0249-058.0-20130523	5/23/2013	12:04	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0247-068.0-20130523	5/23/2013	13:20	Water	1	**1.0**	0.30 U	0.29 U	**20.4**	**28.2**	0.23 U
CRHE-DPT0250-010.0-20130523	5/23/2013	13:52	Water	1	0.26 U	0.30 U	0.29 U	**0.40 I**	0.19 U	0.23 U
CRHE-DPT0250-018.0-20130523	5/23/2013	14:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0250-023.0-20130523	5/23/2013	14:08	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0250-028.0-20130523	5/23/2013	14:18	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0250-033.0-20130523	5/23/2013	14:30	Water	1	**2.3**	0.30 U	0.29 U	**0.64 I**	0.19 U	0.23 U
CRHE-DPT0250-038.0-20130523	5/23/2013	14:44	Water	1	**23.8**	0.30 U	**0.47 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0250-043.0-20130523	5/23/2013	14:56	Water	1, 100	**1200**	**3.7**	**58.8**	**2100**	**1.1**	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Field Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0250-058.0-20130523	5/23/2013	15:12	Water	1	**3.4**	0.30 U	0.29 U	**6.8**	0.19 U	0.23 U
CRHE-DPT0251-010.0-20130523	5/23/2013	15:51	Water	1	0.26 U	0.30 U	0.29 U	**1.0**	0.19 U	0.23 U
CRHE-DPT0251-018.0-20130523	5/23/2013	16:01	Water	1	**1.9**	0.30 U	0.29 U	**2.4**	**0.54 I**	0.23 U
CRHE-DPT0251-023.0-20130523	5/23/2013	16:10	Water	1	**1.2**	0.30 U	0.29 U	**0.54 I**	0.19 U	0.23 U
CRHE-DPT0251-028.0-20130523	5/23/2013	16:20	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0251-033.0-20130523	5/23/2013	16:28	Water	1	**97.5**	0.30 U	**7.7**	0.22 U	0.19 U	0.23 U
CRHE-DPT0251-038.0-20130523	5/23/2013	16:35	Water	1, 20	**570**	0.30 U	**33.9**	0.22 U	0.19 U	0.23 U
CRHE-DPT0251-043.0-20130523	5/23/2013	16:52	Water	1	**7.2**	0.30 U	**0.59 I**	**1.5**	0.19 U	0.23 U
CRHE-DPT0251-058.0-20130523	5/23/2013	17:04	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0252-010.0-20130524	5/24/2013	07:49	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0252-018.0-20130524	5/24/2013	07:59	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0252-023.0-20130524	5/24/2013	08:08	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0252-028.0-20130524	5/24/2013	08:18	Water	1	**0.48 I**	0.30 U	0.29 U	**0.92 I**	0.19 U	0.23 U
CRHE-DPT0252-033.0-20130524	5/24/2013	08:31	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0252-038.0-20130524	5/24/2013	08:44	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0252-043.0-20130524	5/24/2013	08:57	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Field Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0252-058.0-20130524	5/24/2013	09:12	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-IDW190492-20130524	5/24/2013	13:10	Water	10	**16**	3.0 U	**3.8 I**	**100**	**7.6 I**	2.3 U
CRHE-IDW190491-20130524	5/24/2013	13:15	Water	10	**53**	3.0 U	**17**	**850**	**320**	2.3 U

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB 3

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE KSC, FL	
SAMPLERS	CONTACT PERSON: Claire	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER 20130520	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: surf. los	COMMENT / SAMPLE PRE FIX
RHE DPT0240 - 010.0	5/20/13	0436		✓	5/20/13	1018		W	2	✓	
-018.0		0450									
-023.0		1002									
-028.0		1012				↓					
-033.0		1026				1135					
-038.0		1036									
-043.0		1046									
-058.0		1056				↓					
DPT0241- 010.0		1140				1330					
-018		1150									
-023		1245									
-028		1256									
-033		1306									
-038		1316									
-043	↓	1326		↓	↓	1510		↓	↓	↓	

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time: 5/20/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSC, FL

SAMPLERS

CONTACT PERSON: Claire

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Jar Tot Ks

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENT / SAMPLE PRE FIX
CRTE DPT0241-058	5/20/13	1346		✓	5/20/13	1510		W	2	✓
DPT0242-018		1440				~~1510~~				
-023		1450								
-028		1500								
-033		1510				1605				
-038		1542								
-043		1552								
-048		1602								
-058		1630								

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)		Received by: (Signature)	5/20/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS		BATCH # (Lab Use Only)
Coosyntec	CRHE KSC, FL		
SAMPLERS	CONTACT PERSON		
	Claire		

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: U0 1of1 105

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

	SAMPLE FIELD ID.\ NUMBER 20130521	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS						COMMENT / SAMPLE PRE FIX
CRHE	DPT0243-018	5/21/13	0815		✓	5/24/13	0910		W	2	✓					
	-023		0826													
	-028		0836													
	-033		0846													
	-039		0856				1050									
	-043		0906													
	-048		0916													
	-058		0956													
	DPT0244-018		1215				1320									
	-023		1226													
	-028		1236													
	-033		1250													
	-038		1302													
	-043		1312													
	-048		1326				1535									

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 5/24/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE	KSC, FL
SAMPLERS	**CONTACT PERSON**	**BATCH # (Lab Use Only)**
	Claire	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Volatiles	COMMENT / SAMPLE PRE FIX
	20130521											
CRHE	DPT0244-058	5/21/13	1336		-	5/21/13	1535		W	2	✓	
	DPT0242-068		1435									
	DPT0245-018		1515									
	-023		1526									
	-028	5/22/13	0730			5/22/13	0830					
	-033		0742									
	-038		0756									
	-043		0810									
	-048		0824									
	-058		0834				1010					
	DPT0228-048		0910									
	DPT0246-010		0936									
	-018		0946									
	-023		0958									
	-028		1010									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 5/22/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT # K83

CLIENT NAME	PROJECT NAME & ADDRESS		SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)
Geosyntec	CRHE	KSC, FL		Claire	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: V. Lt. Ice	COMMENT / SAMPLE PRE FIX
20130522											
CRHE DPT0246 -033	5/22/13	1020		✓	5/22/13	1010		W	2	✓	
-038		1030				1140					
-043		1040									
-058		1050									
DPT0247-010		1116									
-018		1126									
-023		1136									
-028		1146				1320					
-033		1156									
-038		1206									
-043		1216									
-058		1226									
DPT0248-010		1416				1540					
-018		1428									
-023		1439									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 5/22/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSC, FL

SAMPLERS

CONTACT PERSON: Claire

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 1/4 1/4 1/4 1/4

SAMPLE FIELD ID.\ NUMBER L0130522	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENT / SAMPLE PRE FIX
CRTE DPT0248 -028	5/22/13	1450		✓	5/22/13	1540		W	2	
-033		1500								
-039		1510								
-043		1520								
-058		1532								
DPT0226 -048	5/23/13	0800			5/23/13	1030				
0244 -068		0840								
0231 -048		0910								
0230 -048		1002								
DPT0249 -010		1038				1115				
-018		1048								
-023		1100								
-028		1108								
-033		1124				1410				
-038		1136				1410				

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 5/23/13

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT # KB 3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON: Claire

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

	SAMPLE FIELD ID.\ NUMBER 20130523	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOCs	1,4-dioxane				COMMENT / SAMPLE PRE FIX
CRHE	DPT0249-043	5/23/13	1140		✓	5/23/13	1410		W	2	✓					
	-058		1204													
	DPT0247-068		1320													
	DPT0250-010		1352													
	-018		1400													
	-023		1409				1500									
	-028		1418													
	-033		1430													
	-038		1444													
	-043		1456													
	-058		1512				1630									
	DPT0251-010		1551													
	-018		1601													
	-023		1610													
	-028		1620													

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 5/23/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS		SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	PRESERVATION
Geosyntec	CRTE KSC, FL					C Chilled H HCL Ot Other (see Remarks)
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)				
	Claire					

	SAMPLE FIELD ID.\ NUMBER 20130523	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOC's	COMMENT / SAMPLE PRE FIX
CRTE	DPT0251-033	5/23/13	1628		✓	5/23/13	1630		W	2	✓	
	-038		1635				1705					
	-043		1652				↓					
	-058		1704									
	DPT0252-010	5/24/13	0749			5/24/13	0835					
	-018		0759									
	-023		0808									
	-028		0818									
	-033		0831				↓					
	-039		0844				0915					
	-043		0857				↓					
	-058		0912									
	IDW190492		1310				1345					
	IDW190491		1315				1345					
		↓				↓						

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 5/24/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
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June 6, 2013

Lauren Petty
Geosyntec Consultants
316 South Baylen Street
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report- KB3
KB Labs Project # 13-83

Dear Ms. Petty:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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Fax: 352-378-6491
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PROJECT NARRATIVE

Project Scope

From June 3 to 6, 2013, a total of 59 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per Client instruction, KB Labs reports all samples to the laboratory MDL. Values between the PQL and MDL are reported with an I FDEP Data Qualifier.

3. Vinyl chloride result for sample ID DPT059-043.0 was changed from 2600 ug/L to 1800 ug/L after 50X dilution on 6/6/13.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-83
On-site Dates: 6/3/13-6/6/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	06/03/13	91	90	100	104	Pass	Pass	Pass	Pass
VSTD 1	06/03/13	94	97	101	99	Pass	Pass	Pass	Pass
VSTD 5	06/03/13	95	100	100	98	Pass	Pass	Pass	Pass
VSTD 10	06/03/13	93	90	101	100	Pass	Pass	Pass	Pass
VSTD 20	06/03/13	99	100	99	101	Pass	Pass	Pass	Pass
VSTD 50	06/03/13	101	93	100	99	Pass	Pass	Pass	Pass
VSTD 100	06/03/13	118	113	100	102	Pass	Pass	Pass	Pass
BLANK	06/03/13	97	90	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0253-038.0 1:100	06/03/13	101	101	97	96	Pass	Pass	Pass	Pass
CRHE-DPT0253-018.0	06/03/13	95	97	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0253-023.0	06/03/13	102	105	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0253-028.0	06/03/13	108	101	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0253-033.0	06/03/13	102	99	95	102	Pass	Pass	Pass	Pass
CRHE-DPT0253-043.0 1:100	06/03/13	100	95	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0253-048.0 1:100	06/03/13	99	101	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0253-058.0	06/03/13	97	96	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0229-048.0 1:100	06/03/13	94	92	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0236-048.0 1:100	06/03/13	97	96	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0254-018.0	06/03/13	89	93	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0254-023.0	06/03/13	95	90	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0254-028.0	06/03/13	91	91	93	96	Pass	Pass	Pass	Pass
CRHE-DPT0254-033.0	06/03/13	86	86	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0254-038.0	06/03/13	90	88	96	97	Pass	Pass	Pass	Pass
CRHE-DPT0254-043.0	06/03/13	93	90	91	94	Pass	Pass	Pass	Pass
CRHE-DPT0254-048.0 1:10	06/03/13	96	89	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0254-058.0	06/03/13	87	85	96	106	Pass	Pass	Pass	Pass
CRHE-DPT0255-018.0	06/03/13	87	84	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0255-023.0	06/03/13	86	82	98	106	Pass	Pass	Pass	Pass
CRHE-DPT0253-018.0 MS	06/04/13	86	84	103	103	Pass	Pass	Pass	Pass
CRHE-DPT0253-018.0 MSD	06/04/13	88	87	104	101	Pass	Pass	Pass	Pass
LCS	06/04/13	91	89	99	103	Pass	Pass	Pass	Pass
CCS 20	06/04/13	90	86	100	102	Pass	Pass	Pass	Pass
CCS 20	06/04/13	93	101	96	104	Pass	Pass	Pass	Pass
RSTD	06/04/13	90	90	96	106	Pass	Pass	Pass	Pass
BLANK	06/04/13	91	89	106	105	Pass	Pass	Pass	Pass
CRHE-DPT0255-028.0	06/04/13	88	85	104	113	Pass	Pass	Pass	Pass
CRHE-DPT0255-033.0	06/04/13	94	87	95	108	Pass	Pass	Pass	Pass
CRHE-DPT0255-038.0	06/04/13	88	84	117	107	Pass	Pass	> UCL	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-83
On-site Dates: 6/3/13-6/6/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0255-043.0	06/04/13	87	86	132	109	Pass	Pass	> UCL	Pass
CRHE-DPT0253-033.0 1:5	06/04/13	88	85	108	99	Pass	Pass	Pass	Pass
CRHE-DPT0254-043.0 1:20	06/04/13	59	50	108	109	< LCL	< LCL	Pass	Pass
CRHE-DPT0254-048.0 1:50	06/04/13	91	90	102	102	Pass	Pass	Pass	Pass
CRHE-DPT0255-048.0	06/04/13	95	98	99	161	Pass	Pass	Pass	> UCL
CRHE-DPT0255-058.0	06/04/13	93	89	100	113	Pass	Pass	Pass	Pass
CRHE-DPT0256-018.0	06/04/13	94	42	95	108	Pass	< LCL	Pass	Pass
CRHE-DPT0256-023.0	06/04/13	107	107	95	100	Pass	Pass	Pass	Pass
CRHE-DPT0256-028.0	06/04/13	101	109	89	106	Pass	Pass	Pass	Pass
CRHE-DPT0256-033.0	06/04/13	103	104	93	102	Pass	Pass	Pass	Pass
CRHE-DPT0256-038.0	06/04/13	97	105	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0256-043.0	06/04/13	100	102	92	94	Pass	Pass	Pass	Pass
CRHE-DPT0256-048.0	06/04/13	100	106	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0256-058.0	06/04/13	102	106	93	103	Pass	Pass	Pass	Pass
CRHE-DPT0257-018.0	06/04/13	99	104	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0257-023.0	06/04/13	95	102	99	106	Pass	Pass	Pass	Pass
CRHE-DPT0257-028.0	06/04/13	95	104	103	109	Pass	Pass	Pass	Pass
CRHE-DPT0257-033.0	06/04/13	98	99	104	104	Pass	Pass	Pass	Pass
CRHE-DPT0257-038.0	06/04/13	100	104	54	100	Pass	Pass	< LCL	Pass
CRHE-DPT0257-043.0	06/04/13	96	104	102	109	Pass	Pass	Pass	Pass
CRHE-DPT0257-048.0	06/04/13	97	109	94	117	Pass	Pass	Pass	Pass
CRHE-DPT0256-028.0 MS	06/04/13	90	108	105	101	Pass	Pass	Pass	Pass
CRHE-DPT0256-028.0 MSD	06/04/13	98	115	99	108	Pass	Pass	Pass	Pass
CRHE-DPT0256-058.0 MS	06/04/13	96	101	103	100	Pass	Pass	Pass	Pass
CRHE-DPT0256-058.0 MSD	06/04/13	97	99	106	108	Pass	Pass	Pass	Pass
CRHE-DPT0258-033.0	06/04/13	103	114	91	102	Pass	Pass	Pass	Pass
CRHE-DPT0258-038.0 1:10	06/04/13	98	103	97	107	Pass	Pass	Pass	Pass
CRHE-DPT0258-043.0 1:100	06/04/13	94	105	102	107	Pass	Pass	Pass	Pass
CRHE-DPT0258-048.0 1:50	06/04/13	95	96	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0258-058.0	06/04/13	97	102	105	109	Pass	Pass	Pass	Pass
CRHE-DPT0259-033.0	06/04/13	91	103	98	105	Pass	Pass	Pass	Pass
CCS 20	06/04/13	91	100	100	107	Pass	Pass	Pass	Pass
CCS 20	06/05/13	101	106	88	113	Pass	Pass	Pass	Pass
RSTD 20	06/05/13	98	108	92	109	Pass	Pass	Pass	Pass
BLANK	06/05/13	96	103	96	105	Pass	Pass	Pass	Pass
CRHE-DPT0258-038.0	06/05/13	95	100	103	108	Pass	Pass	Pass	Pass
CRHE-DPT0258-058.0 MS	06/05/13	92	100	96	105	Pass	Pass	Pass	Pass
CRHE-DPT0258-058.0 MSD	06/05/13	95	100	98	110	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-83
On-site Dates: 6/3/13-6/6/13	**Client Project Manager**: Lauren Petty	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0259-038.0	06/05/13	102	106	96	107	Pass	Pass	Pass	Pass
CRHE-DPT0259-043.0 1:10	06/05/13	152	161	102	183	> UCL	> UCL	Pass	> UCL
CRHE-DPT0259-048.0 1:20	06/05/13	97	104	100	111	Pass	Pass	Pass	Pass
CRHE-DPT0259-058.0	06/05/13	98	102	95	109	Pass	Pass	Pass	Pass
CRHE-DPT0259-038.0 1:20	06/05/13	95	102	102	108	Pass	Pass	Pass	Pass
CRHE-DPT0260-018.0	06/05/13	100	111	100	108	Pass	Pass	Pass	Pass
CRHE-DPT0260-023.0	06/05/13	97	106	98	112	Pass	Pass	Pass	Pass
CRHE-DPT0260-028.0	06/05/13	103	115	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0260-033.0	06/05/13	47	107	105	101	< LCL	Pass	Pass	Pass
CRHE-DPT0260-038.0	06/05/13	102	113	97	106	Pass	Pass	Pass	Pass
BLANK	06/05/13	99	97	101	102	Pass	Pass	Pass	Pass
VSTD 1	06/05/13	100	96	101	101	Pass	Pass	Pass	Pass
VSTD 5	06/05/13	100	100	99	102	Pass	Pass	Pass	Pass
VSTD 10	06/05/13	100	98	99	100	Pass	Pass	Pass	Pass
VSTD 20	06/05/13	101	102	100	100	Pass	Pass	Pass	Pass
VSTD 50	06/05/13	100	102	100	97	Pass	Pass	Pass	Pass
VSTD 100	06/05/13	99	102	100	101	Pass	Pass	Pass	Pass
BLANK	06/05/13	99	99	101	107	Pass	Pass	Pass	Pass
RSTD 20	06/05/13	97	99	101	99	Pass	Pass	Pass	Pass
CRHE-DPT0260-043.0	06/06/13	97	96	103	106	Pass	Pass	Pass	Pass
CRHE-DPT0260-058.0	06/06/13	95	93	104	108	Pass	Pass	Pass	Pass
CRHE-IDW195117 1:10	06/06/13	97	98	103	106	Pass	Pass	Pass	Pass
CRHE-DPT0259-043.0 1:50	06/06/13	99	96	103	105	Pass	Pass	Pass	Pass
CCS 20	06/06/13	99	100	102	98	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-83
Onsite Dates: 6/3/13-6/6/13	**Client Project Manager:** Lauren Petty	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPTt0253-018.0 **Date of Analysis:** 6/3/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	89	96	7	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	115	125	9	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	88	97	11	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	81	90	10	Pass	Pass	Pass
Trichloroethene	67	128	20	91	97	7	Pass	Pass	Pass
Tetrachloroethene	60	140	20	98	101	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0256-028.0 **Date of Analysis:** 6/4/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	94	88	6	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	124	130	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	98	101	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	96	95	1	Pass	Pass	Pass
Trichloroethene	67	128	20	108	106	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	113	108	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0256-058.0 **Date of Analysis:** 6/4/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	61	15	122	Pass	< LCL	> RPDL
1,1-Dichloroethene	62	136	20	133	138	4	Pass	> UCL	Pass
Trans-1,2-Dichloroethene	63	131	20	104	101	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	104	100	5	Pass	Pass	Pass
Trichloroethene	67	128	20	104	106	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	110	116	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines. Interference for early compounds including VC.

Samples: CRHE-DPT0258-058.0 **Date of Analysis:** 6/4/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	129	119	8	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	132	134	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	107	103	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	103	100	3	Pass	Pass	Pass
Trichloroethene	67	128	20	111	110	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	112	116	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Glenn Jackson
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-83
Onsite Dates: 6/3/13-6/6/13	**Client Project Manager:** Lauren Petty	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 6/4/2013
LCS 2 — 6/4/2013
LCS 3 — 6/5/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS 1	LCS 2	LCS 3	LCS 1	LCS 2	LCS 3
Vinyl Chloride	58	to	135	98	118	116	Pass	Pass	Pass
1,1-Dichloroethene	60	to	141	125	129	132	Pass	Pass	Pass
Trans-1,2-Dichloroethene	62	to	133	96	98	106	Pass	Pass	Pass
Cis-1,2-Dichloroethene	62	to	140	90	92	102	Pass	Pass	Pass
Trichloroethene	68	to	128	96	102	107	Pass	Pass	Pass
Tetrachloroethene	67	to	135	102	102	114	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 6/6/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS 4			LCS 4		
Vinyl Chloride	58	to	135	110			Pass		
1,1-Dichloroethene	60	to	141	105			Pass		
Trans-1,2-Dichloroethene	62	to	133	100			Pass		
Cis-1,2-Dichloroethene	62	to	140	98			Pass		
Trichloroethene	68	to	128	98			Pass		
Tetrachloroethene	67	to	135	101			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0253-038.0-20130603	6/3/2013	09:54	Water	100	**2000**	30 U	**100**	**3200**	19 U	23 U
CRHE-DPT0253-018.0-20130603	6/3/2013	09:05	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0253-023.0-20130603	6/3/2013	09:17	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0253-028.0-20130603	6/3/2013	09:29	Water	1	**0.30** I	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0253-033.0-20130603	6/3/2013	09:40	Water	1,5	**160**	0.30 U	**3.9**	0.22 U	0.19 U	0.23 U
CRHE-DPT0253-043.0-20130603	6/3/2013	10:11	Water	100	**1000**	30 U	**190**	**7300**	**200**	23 U
CRHE-DPT0253-048.0-20130603	6/3/2013	10:29	Water	100	**640**	30 U	**150**	**4400**	**630**	23 U
CRHE-DPT0253-058.0-20130603	6/3/2013	10:47	Water	1	**0.30** I	0.30 U	0.29 U	**2.4**	0.19 U	0.23 U
CRHE-DPT0229-048.0-20130603	6/3/2013	11:53	Water	100	**420**	30 U	**150**	**3900**	**540**	23 U
CRHE-DPT0236-048.0-20130603	6/3/2013	12:18	Water	100	**1200**	30 U	**120**	**7000**	**490**	23 U
CRHE-DPT0254-018.0-20130603	6/3/2013	13:55	Water	1	0.26 U	0.30 U	0.29 U	**1.1**	0.19 U	0.23 U
CRHE-DPT0254-023.0-20130603	6/3/2013	14:06	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0254-028.0-20130603	6/3/2013	14:17	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0254-033.0-20130603	6/3/2013	14:24	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0254-038.0-20130603	6/3/2013	14:44	Water	1	**58.2**	0.30 U	**5.2**	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0254-043.0-20130603	6/3/2013	14:59	Water	1,20	**660**	0.30 U	**12.7**	0.22 U	0.19 U	0.23 U
CRHE-DPT0254-048.0-20130603	6/3/2013	15:14	Water	10,50	**1200**	3.0 U	**40**	**1400**	**2.3** I	2.3 U
CRHE-DPT0254-058.0-20130603	6/3/2013	15:34	Water	1	**1.5**	0.30 U	0.29 U	**0.62** I	0.19 U	0.23 U
CRHE-DPT0255-018.0-20130603	6/3/2013	16:09	Water	1	0.26 U	0.30 U	0.29 U	**0.23** I	0.19 U	0.23 U
CRHE-DPT0255-023.0-20130603	6/3/2013	16:19	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0255-028.0-20130603	6/4/2013	16:29	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0255-033.0-20130603	6/4/2013	16:55	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0255-038.0-20130603	6/4/2013	17:09	Water	1	**0.45** I	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0255-043.0-20130603	6/4/2013	17:24	Water	1	**16.0**	0.30 U	0.29 U	**0.36** I	0.19 U	0.23 U
CRHE-DPT0255-048.0-20130604	6/4/2013	07:33	Water	1	**13.5**	0.30 U	0.29 U	**1.5**	0.19 U	0.23 U
CRHE-DPT0255-058.0-20130604	6/4/2013	07:51	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0256-018.0-20130604	6/4/2013	08:41	Water	1	0.26 U	**2.5**	0.29 U	**0.64** I	0.19 U	0.23 U
CRHE-DPT0256-023.0-20130604	6/4/2013	08:56	Water	1	**0.29** I	**0.63** I	0.29 U	**1.4**	0.19 U	0.23 U
CRHE-DPT0256-028.0-20130604	6/4/2013	09:07	Water	1	0.26 U	0.30 U	0.29 U	**0.43** I	0.19 U	0.23 U
CRHE-DPT0256-033.0-20130604	6/4/2013	09:21	Water	1	**5.0**	0.30 U	0.29 U	**18.1**	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0256-038.0-20130604	6/4/2013	09:36	Water	1	**3.1**	0.30 U	0.29 U	**12.7**	0.19 U	0.23 U
CRHE-DPT0256-043.0-20130604	6/4/2013	09:52	Water	1	**13.0**	0.30 U	0.29 U	**14.1**	0.19 U	0.23 U
CRHE-DPT0256-048.0-20130604	6/4/2013	10:39	Water	1	0.26 U	0.30 U	0.29 U	**4.0**	0.19 U	0.23 U
CRHE-DPT0256-058.0-20130604	6/4/2013	11:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-018.0-20130604	6/4/2013	11:28	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-023.0-20130604	6/4/2013	11:39	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-028.0-20130604	6/4/2013	11:51	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-033.0-20130604	6/4/2013	12:03	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-038.0-20130604	6/4/2013	12:17	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-043.0-20130604	6/4/2013	13:06	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0257-048.0-20130604	6/4/2013	13:27	Water	1	**0.88** I	0.30 U	0.29 U	**7.0**	**0.29** I	0.23 U
CRHE-DPT0258-033.0-20130604	6/4/2013	13:58	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0258-038.0-20130604	6/4/2013	15:29	Water	1,10	**76.4**	0.30 U	**5.7**	**93**	**2.2**	0.23 U
CRHE-DPT0258-043.0-20130604	6/4/2013	15:59	Water	100	**500**	30 U	**95** I	**2100**	19 U	23 U
CRHE-DPT0258-048.0-20130604	6/4/2013	16:14	Water	50	**76**	15 U	**68**	**900**	**66**	12 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0258-058.0-20130604	6/4/2013	16:31	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0259-033.0-20130604	6/4/2013	17:02	Water	1	**3.4**	0.30 U	**0.42** I	**0.66** I	0.19 U	0.23 U
CRHE-DPT0259-038.0-20130605	6/5/2013	07:16	Water	1,20	**600**	0.30 U	**6.2**	**1.4**	0.19 U	0.23 U
CRHE-DPT0259-043.0-20130605	6/5/2013	07:29	Water	10,50	**1800**	3.0 U	**29**	**690**	**31**	2.3 U
CRHE-DPT0259-048.0-20130605	6/5/2013	07:43	Water	20	**930**	6.0 U	**37**	**1400**	**160**	4.6 U
CRHE-DPT0259-058.0-20130605	6/5/2013	07:58	Water	1	0.26 U	0.30 U	0.29 U	**0.31** I	0.19 U	0.23 U
CRHE-DPT0260-018.0-20130605	6/5/2013	08:38	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0260-023.0-20130605	6/5/2013	08:48	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0260-028.0-20130605	6/5/2013	08:58	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0260-033.0-20130605	6/5/2013	10:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0260-038.0-20130605	6/5/2013	10:13	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0260-043.0-20130605	6/6/2013	10:29	Water	1	**1.9**	0.30 U	0.29 U	**0.44** I	0.19 U	0.23 U
CRHE-DPT0260-058.0-20130605	6/6/2013	10:49	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-IDW195117-20130605	6/6/2013	11:55	Water	10	**12**	3.0 U	2.9 U	**74**	**2.1 I**	2.3 U

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

☐ 25132 SW 1st Avenue
Newberry, FL 32669
TEL (352) 472-5830
FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRHE
SAMPLERS	**CONTACT PERSON**
Geosyntec	Crystal Burns

BATCH # (Lab Use Only)

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0253-18.0_20130603		0905		✓	0603	1230	306031300~~1~~A/B	W	2	✓	
023.0		0917					306031300 2 A/B				
028.0		0929					306031300 3 A/B				
033.0		0940					306031300 4 A/B				
038.0		0954					306031300 5 A/B				
043.0		104					306031300 6 A/B				
048.0		1029					306031300 7 A/B				
018.0 DPT0229-048.0		1047					306031300 8 A/B				
~~DPT0229-048.0~~ 043.0		1153					306031300 9 A/B				018 should be DPT0229-048.0
048.0		1218					306031301 0 A/B				018 should be DPT0236-048.0
~~DPT0254-018.0~~		1318				1730	306031301 1 A/B				DO NOT Run as per J.J.
018.0		1355					306031301 2 A/B				
023.0		1406					306031301 3 A/B				
028.0		1417					306031301 4 A/B				
033.0		1424					306031301 5 A/B				

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			06/03/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1483

CLIENT NAME: GeoSynTec

PROJECT NAME & ADDRESS: CRITE

SAMPLERS

CONTACT PERSON: Crystal Towns

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
CRITE											
DPT054-038.0-20130603		1444		✓	06/03/13	1730	306031301 6 A/B	GW	2	✓	
043.0		1459					017 A/B				
048.0		1514					018 A/B				
053.0		1534					019 A/B				
DPT055-018.0		1609					020 A/B				
-023.0		1619					021 A/B				
028.0		1629					022 A/B				
033.0		1655					023 A/B				
038.0		1709					024 A/B				
043.0		1724				1755	025 A/B				

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			6/3/13	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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TEL (352) 472-5830
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☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DT 0255 - 048.0	6/4/13	0733			6/4/13	1000		GW	2	✓	
058.0		0757									
DT 0252 - 018.0		0841									
023.0		0856									
028.0		0907									
033.0		0921									
038.0		0936									
043.0		0952									
048.0		1039				1230					
058.0		1100									
DT 0257 - 018.0		1118									
023.0		1139									
028.0		1151									
033.0		1203									
038.0		1217									

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	6/4/13	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 483

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSCFL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	COMMENT / SAMPLE PRE FIX
DPTO257-043.0	6/4/13	1306			6/4/13	1430		GW	2	✓	
-048.0		1327				1430					
DPTO258-033.0		1358				1745					
038.0		1529									
043.0		1559									
048.0		1614									
058.0		1631									
DPTO259-033.0		1702									

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	6/4/13	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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FAX (352) 472-5832

☐ 200 Quade Drive
Cary, NC 27513
TEL (919) 678-0030

MOBILE UNIT # 1C83

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CCHE ICSC, FL
SAMPLERS
CONTACT PERSON
BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	COMMENT / SAMPLE PRE FIX
DPT0259-038.0	6/5/13	0716			6/5/13	0830		GW	2	✓	
043.0		0729									
048.0		0743									
053.0		0758				✓					
DPT0260-018.0		0838				1000					
023.0		0848									
028.0		0858									
033.0		1000									
038.0		1013				1100					
043.0		1029									
048.0		1049				✓					
DW 6/5/13		1155				1200		GW	2	✓	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/5/13	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
6821 SW Archer Road
Gainesville, FL 32608
***Telephone* (352) 367-0073**
***Fax* (352) 378-6491**
www.kbmobilelabs.com

June 26, 2013

Lauren Petty
Geosyntec Consultants
316 South Baylen Street
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report- KB3
KB Labs Project # 13-83

Dear Ms. Petty:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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www.kbmobilelabs.com

PROJECT NARRATIVE

Project Scope

From June 19 to 21, 2013, a total of 48 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC FL. The samples were analyzed for vinyl chloride, 1,1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example,

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if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. As per Client instruction, KB Labs reports all samples to the laboratory MDL. Values between the PQL and MDL are reported with an I FDEP Data Qualifier.

3. Samples with multiple dilutions were updated to be reported at lowest dilution level for non-detects and hits within the calibration range at lowest level. These samples include:

   DPT0261-038.0, -043.0
   DPT0267-018.0

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-83
On-site Dates: 6/19/13-6/21/13	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
20 VSTD	06/19/13	106	108	98	97	Pass	Pass	Pass	Pass
RSTD 20	06/19/13	104	106	100	95	Pass	Pass	Pass	Pass
BLANK	06/19/13	106	109	99	106	Pass	Pass	Pass	Pass
CRHE-DPT261-010.0	06/19/13	100	93	104	100	Pass	Pass	Pass	Pass
CRHE-DPT261-018.0	06/19/13	102	99	101	104	Pass	Pass	Pass	Pass
CRHE-DPT261-023.0	06/19/13	102	98	100	101	Pass	Pass	Pass	Pass
CRHE-DPT261-028.0	06/19/13	105	101	101	103	Pass	Pass	Pass	Pass
CRHE-DPT261-033.0	06/19/13	110	107	100	106	Pass	Pass	Pass	Pass
CRHE-DPT261-038.0 1:50	06/19/13	108	108	96	98	Pass	Pass	Pass	Pass
CRHE-DPT261-043.0 1:5	06/19/13	114	112	98	98	Pass	Pass	Pass	Pass
CRHE-DPT261-058.0	06/19/13	106	102	101	98	Pass	Pass	Pass	Pass
CRHE-DPT261-038.0 1:100	06/19/13	101	104	101	92	Pass	Pass	Pass	Pass
CRHE-DPT261-043.0 1:50	06/19/13	108	108	99	99	Pass	Pass	Pass	Pass
CRHE-DPT262-010.0	06/19/13	106	104	100	105	Pass	Pass	Pass	Pass
CRHE-DPT262-018.0	06/19/13	107	112	100	100	Pass	Pass	Pass	Pass
CRHE-DPT262-023.0	06/19/13	103	102	98	100	Pass	Pass	Pass	Pass
CRHE-DPT262-028.0	06/19/13	103	104	100	104	Pass	Pass	Pass	Pass
CRHE-DPT262-033.0 1:5	06/19/13	109	109	99	99	Pass	Pass	Pass	Pass
CRHE-DPT262-038.0 1:5	06/19/13	107	105	102	103	Pass	Pass	Pass	Pass
CRHE-DPT262-043.0 1:50	06/19/13	104	107	99	101	Pass	Pass	Pass	Pass
CRHE-DPT262-058.0 1:10	06/19/13	107	108	100	101	Pass	Pass	Pass	Pass
STD 1	06/19/13	106	118	102	97	Pass	Pass	Pass	Pass
STD 5	06/19/13	111	117	102	100	Pass	Pass	Pass	Pass
STD 10	06/19/13	106	110	104	103	Pass	Pass	Pass	Pass
STD 20	06/19/13	106	114	104	94	Pass	Pass	Pass	Pass
STD 50	06/19/13	105	123	105	104	Pass	Pass	Pass	Pass
STD 100	06/19/13	107	127	104	89	Pass	Pass	Pass	Pass
REF 20	06/19/13	98	94	104	109	Pass	Pass	Pass	Pass
BLANK	06/19/13	96	87	100	110	Pass	Pass	Pass	Pass
CRHE-DPT263-033.0	06/19/13	97	87	98	104	Pass	Pass	Pass	Pass
CRHE-DPT262-038.0	06/19/13	98	87	98	108	Pass	Pass	Pass	Pass
CRHE-DPT262-043.0	06/19/13	96	89	101	109	Pass	Pass	Pass	Pass
CRHE-DPT262-058.0	06/19/13	97	89	99	109	Pass	Pass	Pass	Pass
VSTD 20	06/20/13	98	97	97	113	Pass	Pass	Pass	Pass
REF 20	06/20/13	98	104	100	115	Pass	Pass	Pass	Pass
BLANK	06/20/13	96	89	99	108	Pass	Pass	Pass	Pass
CRHE-DPT263-038.0	06/20/13	99	95	100	108	Pass	Pass	Pass	Pass
CRHE-DPT263-043.0	06/20/13	100	90	99	112	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-83
On-site Dates: 6/19/13-6/21/13	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT263-048.0 1:5	06/20/13	101	95	100	103	Pass	Pass	Pass	Pass
CRHE-DPT263-053.0	06/20/13	99	90	98	103	Pass	Pass	Pass	Pass
CRHE-DPT265-010.0	06/20/13	100	96	99	102	Pass	Pass	Pass	Pass
CRHE-DPT265-018.0	06/20/13	100	97	98	99	Pass	Pass	Pass	Pass
CRHE-DPT265-023.0	06/20/13	108	116	99	106	Pass	Pass	Pass	Pass
CRHE-DPT265-028.0 1:2	06/20/13	110	111	99	100	Pass	Pass	Pass	Pass
CRHE-DPT265-033.0 1:10	06/20/13	98	86	97	105	Pass	Pass	Pass	Pass
CRHE-DPT265-038.0	06/20/13	109	113	100	101	Pass	Pass	Pass	Pass
CRHE-DPT265-043.0	06/20/13	108	108	100	100	Pass	Pass	Pass	Pass
CRHE-DPT265-058.0	06/20/13	105	111	104	102	Pass	Pass	Pass	Pass
CRHE-DPT266-010.0 1:5	06/20/13	109	109	103	104	Pass	Pass	Pass	Pass
CRHE-DPT266-010.0	06/20/13	109	110	103	105	Pass	Pass	Pass	Pass
CRHE-DPT266-018.0	06/20/13	107	109	103	113	Pass	Pass	Pass	Pass
VSTD 20	06/20/13	102	97	99	99	Pass	Pass	Pass	Pass
REF 20	06/20/13	99	93	98	102	Pass	Pass	Pass	Pass
BLANK	06/20/13	102	93	101	107	Pass	Pass	Pass	Pass
CRHE-DPT265-033.0	06/20/13	100	97	101	107	Pass	Pass	Pass	Pass
CRHE-DPT265-033.0 MS	06/20/13	97	96	98	103	Pass	Pass	Pass	Pass
CRHE-DPT265-033.0 MSD	06/20/13	102	95	100	102	Pass	Pass	Pass	Pass
CRHE-DPT266-023.0	06/20/13	100	91	101	112	Pass	Pass	Pass	Pass
CRHE-DPT266-028.0 1:5	06/20/13	97	94	100	104	Pass	Pass	Pass	Pass
CRHE-DPT264-033.0 1:5	06/20/13	99	90	98	108	Pass	Pass	Pass	Pass
CRHE-DPT264-038.0 1:5	06/20/13	97	90	99	107	Pass	Pass	Pass	Pass
CRHE-DPT264-043.0 1:5	06/20/13	99	91	100	110	Pass	Pass	Pass	Pass
CRHE-DPT264-048.0 1:5	06/20/13	97	93	98	107	Pass	Pass	Pass	Pass
CRHE-DPT264-058.0	06/20/13	101	93	100	103	Pass	Pass	Pass	Pass
VSTD 20	06/21/13	100	97	99	101	Pass	Pass	Pass	Pass
REF 20	06/21/13	97	95	97	100	Pass	Pass	Pass	Pass
BLANK	06/21/13	99	91	99	108	Pass	Pass	Pass	Pass
CRHE-DPT264-033.0	06/21/13	99	90	97	104	Pass	Pass	Pass	Pass
CRHE-DPT264-033.0 MS	06/21/13	101	97	96	100	Pass	Pass	Pass	Pass
CRHE-DPT264-033.0 MSD	06/21/13	100	98	97	95	Pass	Pass	Pass	Pass
CRHE-DPT264-038.0	06/21/13	102	94	98	106	Pass	Pass	Pass	Pass
CRHE-DPT264-043.0	06/21/13	100	91	97	100	Pass	Pass	Pass	Pass
CRHE-DPT264-048.0	06/21/13	99	92	96	105	Pass	Pass	Pass	Pass
CRHE-DPT266-033.0 1:5	06/21/13	103	94	95	101	Pass	Pass	Pass	Pass
CRHE-DPT266-033.0	06/21/13	106	95	96	103	Pass	Pass	Pass	Pass
CRHE-DPT266-038.0	06/21/13	103	93	96	105	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 13-83
On-site Dates: 6/19/13-6/21/13	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT266-043.0	06/21/13	103	95	95	103	Pass	Pass	Pass	Pass
CRHE-DPT266-058.0	06/21/13	104	95	100	105	Pass	Pass	Pass	Pass
CRHE-DPT267-018.0	06/21/13	102	93	98	101	Pass	Pass	Pass	Pass
CRHE-DPT267-023.0 1:20	06/21/13	101	90	98	102	Pass	Pass	Pass	Pass
CRHE-DPT267-018.0 1:10	06/21/13	100	94	99	100	Pass	Pass	Pass	Pass
CRHE-DPT267-023.0	06/21/13	103	94	101	101	Pass	Pass	Pass	Pass
CRHE-DPT267-028.0	06/21/13	96	89	97	104	Pass	Pass	Pass	Pass
CRHE-DPT267-033.0	06/21/13	101	91	98	109	Pass	Pass	Pass	Pass
CRHE-DPT267-038.0	06/21/13	100	94	99	107	Pass	Pass	Pass	Pass
CRHE-IDW195118 1:10	06/21/13	103	98	98	108	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**
S1 = Dibromofluoromethane (83% - 125%)
S2 = 1,2- Dichloroethane-D4 (74% - 130%)
S3 = Toluene-D8 (87% - 114%)
S4 = 4-Bromofluorobenzene (71% - 131%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-83
Onsite Dates: 6/19/13-6/21/13	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT265-033.0 **Date of Analysis:** 6/20/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	99	107	8	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	91	109	18	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	85	90	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	96	102	6	Pass	Pass	Pass
Trichloroethene	67	128	20	93	102	9	Pass	Pass	Pass
Tetrachloroethene	60	140	20	95	102	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT264-033.0 **Date of Analysis:** 6/21/2013

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	51	144	20	98	99	1	Pass	Pass	Pass
1,1-Dichloroethene	62	136	20	94	109	15	Pass	Pass	Pass
Trans-1,2-Dichloroethene	63	131	20	84	91	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	67	131	20	96	100	5	Pass	Pass	Pass
Trichloroethene	67	128	20	95	97	2	Pass	Pass	Pass
Tetrachloroethene	60	140	20	91	95	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 13-83
Onsite Dates: 6/19/13-6/21/13	**Client Project Manager:** Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 6/19/2013
LCS 2 — 6/19/2013
LCS 3 — 6/20/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS 1	LCS 2	LCS 3	LCS 1	LCS 2	LCS 3
Vinyl Chloride	58	to	135	161	154	77	> UCL	> UCL	Pass
1,1-Dichloroethene	60	to	141	155	187	90	> UCL	> UCL	Pass
Trans-1,2-Dichloroethene	62	to	133	140	171	87	> UCL	> UCL	Pass
Cis-1,2-Dichloroethene	62	to	140	134	156	96	Pass	> UCL	Pass
Trichloroethene	68	to	128	144	166	92	> UCL	> UCL	Pass
Tetrachloroethene	67	to	135	154	180	95	> UCL	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 6/20/2013
LCS 5 — 6/21/2013

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS 4	LCS 5		LCS 4	LCS 5	
Vinyl Chloride	58	to	135	98	94		Pass	Pass	
1,1-Dichloroethene	60	to	141	99	79		Pass	Pass	
Trans-1,2-Dichloroethene	62	to	133	86	87		Pass	Pass	
Cis-1,2-Dichloroethene	62	to	140	102	103		Pass	Pass	
Trichloroethene	68	to	128	99	99		Pass	Pass	
Tetrachloroethene	67	to	135	99	98		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0261-010.0-20130619	6/19/2013	07:55	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0261-018.0-20130619	6/19/2013	08:16	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0261-023.0-20130619	6/19/2013	08:30	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0261-028.0-20130619	6/19/2013	08:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0261-033.0-20130619	6/19/2013	09:00	Water	1	**60.3**	0.30 U	**0.73** I	**13.2**	**1.2**	0.23 U
CRHE-DPT0261-038.0-20130619	6/19/2013	09:15	Water	50, 100	**4600**	15 U	15 U	**1000**	9.5 U	12 U
CRHE-DPT0261-043.0-20130619	6/19/2013	09:35	Water	5, 50	**1400**	1.5 U	**2.4** I	**180**	0.95 U	1.2 U
CRHE-DPT0261-058.0-20130619	6/19/2013	09:55	Water	1	**5.0**	0.30 U	0.29 U	**1.6**	0.19 U	0.23 U
CRHE-DPT0262-010.0-20130619	6/19/2013	14:15	Water	1	0.26 U	0.30 U	0.29 U	**0.70** I	0.19 U	0.23 U
CRHE-DPT0262-018.0-20130619	6/19/2013	14:25	Water	1	**1.7**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0262-023.0-20130619	6/19/2013	14:35	Water	1	**11.5**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0262-028.0-20130619	6/19/2013	14:45	Water	1	**97.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0262-033.0-20130619	6/19/2013	15:05	Water	5	**120**	1.5 U	1.5 U	1.1 U	0.95 U	1.2 U
CRHE-DPT0262-038.0-20130619	6/19/2013	15:20	Water	1	**2.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0262-043.0-20130619	6/19/2013	15:35	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0262-058.0-20130619	6/19/2013	15:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0263-033.0-20130619	6/19/2013	17:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0263-038.0-20130620	6/20/2013	07:05	Water	1	0.26 U	0.30 U	**0.43** I	0.22 U	0.19 U	0.23 U
CRHE-DPT0263-043.0-20130620	6/20/2013	07:25	Water	1	**5.6**	0.30 U	**1.6**	**0.49** I	0.19 U	0.23 U
CRHE-DPT0263-048.0-20130620	6/20/2013	07:45	Water	5	**170**	1.5 U	**4.5** I	**53**	0.95 U	1.2 U
CRHE-DPT0263-058.0-20130620	6/20/2013	08:05	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0265-010.0-20130620	6/20/2013	11:05	Water	1	**1.8**	0.30 U	0.29 U	**0.66** I	0.19 U	0.23 U
CRHE-DPT0265-018.0-20130620	6/20/2013	11:20	Water	1	**7.0**	0.30 U	0.29 U	**1.6**	0.19 U	0.23 U
CRHE-DPT0265-023.0-20130620	6/20/2013	11:30	Water	1	**11.2**	0.30 U	0.29 U	**0.49** I	0.19 U	0.23 U
CRHE-DPT0265-028.0-20130620	6/20/2013	11:40	Water	2	**110**	0.60 U	0.58 U	0.44 U	0.38 U	0.46 U
CRHE-DPT0265-033.0-20130620	6/20/2013	11:58	Water	1	**4.8**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0265-038.0-20130620	6/20/2013	13:00	Water	1	**26.8**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0265-043.0-20130620	6/20/2013	13:16	Water	1	**3.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0265-058.0-20130620	6/20/2013	13:33	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0266-010.0-20130620	6/20/2013	14:15	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0266-018.0-20130620	6/20/2013	14:25	Water	1	**1.0**	0.30 U	0.29 U	**1.0**	0.19 U	0.23 U
CRHE-DPT0266-023.0-20130620	6/20/2013	14:40	Water	1	**12.2**	0.30 U	0.29 U	**0.31** I	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0266-028.0-20130620	6/20/2013	14:50	Water	5	**18**	1.5 U	1.5 U	1.1 U	0.95 U	1.2 U
CRHE-DPT0264-033.0-20130620	6/21/2013	08:35	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0264-038.0-20130620	6/21/2013	08:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0264-043.0-20130620	6/21/2013	09:10	Water	1	0.26 U	0.30 U	**0.48** I	0.22 U	0.19 U	0.23 U
CRHE-DPT0264-048.0-20130620	6/21/2013	09:10	Water	1	**2.8**	0.30 U	**0.74** I	**0.25** I	0.19 U	0.23 U
CRHE-DPT0264-058.0-20130620	6/21/2013	09:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0266-033.0-20130621	6/21/2013	08:20	Water	1	**29.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0266-038.0-20130621	6/21/2013	08:35	Water	1	**14.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0266-043.0-20130621	6/21/2013	08:50	Water	1	**5.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0266-058.0-20130621	6/21/2013	09:10	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0267-018.0-20130621	6/21/2013	09:45	Water	1, 10	**140**	0.30 U	0.29 U	**8.9**	0.19 U	0.23 U
CRHE-DPT0267-023.0-20130621	6/21/2013	10:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0267-028.0-20130621	6/21/2013	10:10	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0267-033.0-20130621	6/21/2013	10:20	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0267-038.0-20130621	6/21/2013	10:35	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-IDW195118-20130621	6/21/2013	11:20	Water	10	2.6 U	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U

Reporting units for waters are ug/L and for soils are mg/kg.

Mobile Laboratory Services

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6701 Conference Drive
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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB-3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRETE

SAMPLERS: Lauren Kelly

CONTACT PERSON: Lauren Kelly

BATCH # (Lab Use Only)

	SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260 (with TCL)	COMMENT / SAMPLE PRE FIX
BPT	221-010.020130619	6/19/13	0735		✓	6/19/13	0806		(w)	2	✓	
	-018.0		0816									
	-023.0		0830									
	-028.0		0845									
	-033.0		0900									
	-038.0		0915									
	-043.0		0935									
	-048.0		0955									
WBZ	-010.0		1415									
	-018.0		1425									
	-023.0		1435									
	-028.0		1445									
	-033.0		1505									
	-038.0		1520									
	-043.0		1535									

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			6/19/13 1205
Relinquished by: (Signature)	6/19/13 1540		

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

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TEL (352) 538-6507

CLIENT NAME	PROJECT NAME & ADDRESS																	
Groundtech	CAPITZ																	
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)											
V. Roth	L. Roth																	
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS								COMMENT / SAMPLE PRE FIX
DPT0463-059.0 2013-06-19	6/19/13	1550		✓	6/19/13			GW	2	✓								
DPT0463-033.0	6/19/13	1745		✓	↓			↓	↓	✓								

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
			6/19/13 1700	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1 of 2

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MOBILE UNIT # KB-3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CCHE
SAMPLERS	**CONTACT PERSON** / **BATCH # (Lab Use Only)**
L. Petty	L. Petty

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS (TCL VOCs, TCL SVOCs, TAL Metals)	COMMENT / SAMPLE PRE FIX
CCHE-DPT0263-038.0	6/13/2013	0705		✓	6/20/13			SW	2	✓	
-043.0		0725									
-049.0		0745									
-056.0		0905									
CCHE-DPT0264-033.0		illegible									
-038.0	0857	illegible									
-043.0		0910									
-048.0		"									
-059.0											
CCHE-DPT0265-018.0		1135									
-018.0		1120									
-023.0		1130									
-029.0		1140									
-033.0		1158									
-038.0	↓	1300		↓	↓			↓	↓	↓	

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
[signature]	6/20/13	[signature]		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

2 of 2

MOBILE UNIT #

CLIENT NAME	PROJECT NAME & ADDRESS																	
Geosyntec	CCHE																	
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)											
L. Reth	L. Reth																	
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS								COMMENT / SAMPLE PRE FIX
CCHE-INT0205-043.0	6-20-13	316		✓				SW	2	✓								KB-3
-058.0	↓	1335		↓				↓	↓	↓								
CCHE-INT0206-010.0		1415																
-018.0		1425																
-023.0		1440																
-028.6	↓	1450		↓				↓	↓	↓								

Precleaned Containers Relinquished by: *(Signature)*	Date / Time 6/20/13	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

CHAIN-OF-CUSTODY RECORD

1 of 1

MOBILE UNIT # 1153

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRTTE	
SAMPLERS	**CONTACT PERSON**	**BATCH # (Lab Use Only)**
C. Petty	C. Petty	

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS (VOCs 1624/8260 (MH))	COMMENT / SAMPLE PRE FIX
CRTTE-DPT0266-033.0	6-24-13	0820		✓				GW	2	✓	
-038.0		0835									
-043.0		0850									
-058.0		0910									
CRTTE-DPT0267-018.0		0945									
-023.0		1000									
-028.0		1010									
-034.0		1020									
-040.0		1035									
IDW-195118		1120									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
6821 SW Archer Road
Gainesville, Florida 32608
***Telephone* (352) 367-0073**
***Fax* (352) 378-6491**
Email: info@kbmobilelabs.com

June 18, 2014

Crystal Towns
Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 14-13

Dear Ms. Towns:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from May 28 to June 13, 2014. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

PROJECT NARRATIVE

Project Scope

From May 28 to June 13, 2014, a total of 227 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1, 1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

FDEP Data Qualifiers:

U Analyte was not detected or below the laboratory MDL.
I The result is below the PQL but larger than the laboratory MDL.
L Result exceeded Upper Calibration Range.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the

uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as ± 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample ID CRHE-DPT0277-048.0-20140530 reported cis-1, 2-dichloroethene at 3.1I ug/L. Changed to 3.1ug/L with no DQ.

3. Sample ID CRHE-DPT0301-058.0-20140610 reported cis-1, 2-dichloroethene at 1.7 ug/L. Changed to 1.2 ug/L.

4. Sample ID CRHE-IDW197035 reported dilution 1x should have been 10x. MDL limits updated.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK/TUNE	05/28/14	103	103	98	97	Pass	Pass	Pass	Pass
CCS 20	05/28/14	100	105	99	100	Pass	Pass	Pass	Pass
LCS 20	05/28/14	106	107	95	99	Pass	Pass	Pass	Pass
BLANK	05/28/14	99	93	95	92	Pass	Pass	Pass	Pass
ICAL 100	05/28/14	105	100	99	102	Pass	Pass	Pass	Pass
BLANK	05/28/14	100	97	96	98	Pass	Pass	Pass	Pass
CRHE-DPT0268-033.0	05/28/14	100	98	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0268-038.0	05/28/14	100	96	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0268-038.0 1:500	05/28/14	100	97	95	92	Pass	Pass	Pass	Pass
CRHE-DPT0268-043.0	05/28/14	99	96	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0268-043.0 1:200	05/28/14	96	97	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0268-048.0	05/28/14	102	103	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0268-048.0 1:100	05/28/14	99	100	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0268-058.0	05/28/14	100	102	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0268-033.0 1:5	05/28/14	100	102	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0269-038.0 1:200	05/28/14	98	98	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0269-043.0 1:100	05/28/14	102	99	97	96	Pass	Pass	Pass	Pass
CRHE-DPT0269-04.08 1:50	05/28/14	99	96	97	95	Pass	Pass	Pass	Pass
CRHE-DPT0269-058.0 1:10	05/28/14	98	91	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0269-058.0	05/28/14	99	96	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0270-038.0	05/28/14	108	101	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0270-04.03 1:100	05/28/14	101	98	98	96	Pass	Pass	Pass	Pass
CRHE-DPT0270-048.0 1:100	05/28/14	103	101	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0270-058.0	05/28/14	99	100	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0271-038.0	05/28/14	103	101	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0271-043.0	05/28/14	100	98	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0271-048.0 1:50	05/28/14	98	97	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0271-058.0	05/28/14	102	99	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0268-058.0 MS	05/28/14	104	104	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0268-058.0 MSD	05/28/14	100	101	97	100	Pass	Pass	Pass	Pass
CCS 20	05/28/14	103	104	95	97	Pass	Pass	Pass	Pass
LCS 20	05/28/14	101	101	97	97	Pass	Pass	Pass	Pass
BLANK	05/28/14	98	97	98	91	Pass	Pass	Pass	Pass
CRHE-DPT272-038.0	05/28/14	99	94	97	94	Pass	Pass	Pass	Pass
CRHE-DPT272-043.0	05/28/14	105	101	97	93	Pass	Pass	Pass	Pass
CRHE-DPT272-048.0 1:100	05/28/14	97	94	97	93	Pass	Pass	Pass	Pass
CRHE-DPT272-058.0	05/28/14	101	102	97	91	Pass	Pass	Pass	Pass
CRHE-DPT272-058.0 MS	05/28/14	98	92	96	97	Pass	Pass	Pass	Pass
CRHE-DPT272-058.0 MSD	05/28/14	98	96	97	96	Pass	Pass	Pass	Pass
CRHE-DPT270-038.0 1:20	05/28/14	98	97	97	94	Pass	Pass	Pass	Pass
CRHE-DPT271-038.0 1:10	05/28/14	96	95	98	93	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT271-043.0 1:500	05/28/14	96	93	100	95	Pass	Pass	Pass	Pass
CCS 20	05/28/14	96	93	100	95	Pass	Pass	Pass	Pass
ICAL 200	05/28/14	112	110	100	103	Pass	Pass	Pass	Pass
BLANK	05/29/14	97	95	99	92	Pass	Pass	Pass	Pass
BLANK/TUNE	05/29/14	100	105	94	92	Pass	Pass	Pass	Pass
CCS 20	05/29/14	107	107	94	96	Pass	Pass	Pass	Pass
LCS 20	05/29/14	103	97	96	99	Pass	Pass	Pass	Pass
BLANK	05/29/14	98	98	96	93	Pass	Pass	Pass	Pass
CRHE-DPT0272-038.0 1:20	05/29/14	98	94	96	92	Pass	Pass	Pass	Pass
CRHE-DPT0272-043.0 1:20	05/29/14	101	102	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0273-038.0	05/29/14	100	98	95	93	Pass	Pass	Pass	Pass
CRHE-DPT0273-043.0	05/29/14	100	99	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0273-048.0	05/29/14	101	102	94	93	Pass	Pass	Pass	Pass
CRHE-DPT0273-058.0	05/29/14	103	101	95	91	Pass	Pass	Pass	Pass
CRHE-DPT0227-048.0 1:50	05/29/14	102	98	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0274-033.0	05/29/14	101	101	94	94	Pass	Pass	Pass	Pass
CRHE-DPT0274-038.0	05/29/14	102	98	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0274-043.0	05/29/14	101	102	94	94	Pass	Pass	Pass	Pass
CRHE-DPT0274-048.0 1:20	05/29/14	101	97	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0274-058.0	05/29/14	100	98	95	95	Pass	Pass	Pass	Pass
CRHE-DPT0274-043.0 1:20	05/29/14	99	97	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0274-058.0 MS	05/29/14	105	108	93	99	Pass	Pass	Pass	Pass
CRHE-DPT0274-058.0 MSD	05/29/14	105	105	95	101	Pass	Pass	Pass	Pass
CRHE-DPT0275-038.0	05/29/14	100	101	94	93	Pass	Pass	Pass	Pass
CRHE-DPT0275-043.0	05/29/14	100	100	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0275-048.0	05/29/14	99	99	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0275-058.0	05/29/14	103	98	94	97	Pass	Pass	Pass	Pass
CRHE-DPT0276-033.0	05/29/14	99	94	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0276-038.0	05/29/14	103	97	95	98	Pass	Pass	Pass	Pass
CRHE-DPT0276-043.0	05/29/14	101	98	95	95	Pass	Pass	Pass	Pass
CRHE-DPT02760-48.0	05/29/14	105	98	95	97	Pass	Pass	Pass	Pass
CRHE-DPT0276-058.0	05/29/14	102	96	94	96	Pass	Pass	Pass	Pass
CRHE-DPT0276-048.0 1:2	05/29/14	104	98	99	102	Pass	Pass	Pass	Pass
CCS 20	05/29/14	99	91	97	96	Pass	Pass	Pass	Pass
BLANK/TUNE	05/30/14	104	104	91	91	Pass	Pass	Pass	Pass
CCS 20	05/30/14	104	100	94	94	Pass	Pass	Pass	Pass
LCS 20	05/30/14	101	94	94	95	Pass	Pass	Pass	Pass
BLANK	05/30/14	101	94	95	91	Pass	Pass	Pass	Pass
CRHE-DPT0277-038.0	05/30/14	102	96	93	93	Pass	Pass	Pass	Pass
CRHE-DPT0277-043.0	05/30/14	100	93	93	93	Pass	Pass	Pass	Pass
CRHE-DPT0277-048.0	05/30/14	102	95	95	92	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0277-058.0	05/30/14	100	94	93	93	Pass	Pass	Pass	Pass
CRHE-DPT0277-058.0 MS	05/30/14	106	99	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0277-058.0 MSD	05/30/14	104	97	95	98	Pass	Pass	Pass	Pass
CRHE-DPT0278-028.0	05/30/14	99	94	94	94	Pass	Pass	Pass	Pass
CRHE-DPT0278-033.0	05/30/14	104	100	92	93	Pass	Pass	Pass	Pass
CRHE-DPT0278-038.0	05/30/14	103	96	96	90	Pass	Pass	Pass	Pass
CRHE-DPT0278-043.0	05/30/14	102	96	94	92	Pass	Pass	Pass	Pass
CRHE-DPT0278-048.0	05/30/14	102	95	95	90	Pass	Pass	Pass	Pass
CRHE-DPT0279-028.0	05/30/14	102	98	93	93	Pass	Pass	Pass	Pass
CRHE-DPT0279-033.0	05/30/14	101	97	94	92	Pass	Pass	Pass	Pass
CRHE-DPT0279-038.0	05/30/14	104	99	94	92	Pass	Pass	Pass	Pass
CRHE-DPT0279-043.0	05/30/14	100	94	93	93	Pass	Pass	Pass	Pass
CRHE-DPT0279-038.0 1:2	05/30/14	98	93	94	92	Pass	Pass	Pass	Pass
CRHE-DPT0279-048.0	05/30/14	105	101	94	92	Pass	Pass	Pass	Pass
CRHE-DPT0280-023.0	05/30/14	103	98	93	95	Pass	Pass	Pass	Pass
CRHE-DPT0280-028.0	05/30/14	102	96	93	96	Pass	Pass	Pass	Pass
CRHE-DPT0280-033.0	05/30/14	104	100	94	96	Pass	Pass	Pass	Pass
CRHE-DPT0280-038.0	05/30/14	101	97	93	90	Pass	Pass	Pass	Pass
CRHE-DPT0280-043.0	05/30/14	100	98	93	92	Pass	Pass	Pass	Pass
CRHE-DPT0280-048.0	05/30/14	106	98	93	90	Pass	Pass	Pass	Pass
CCS 20	05/30/14	102	95	95	95	Pass	Pass	Pass	Pass
LCS 20	05/30/14	103	95	96	93	Pass	Pass	Pass	Pass
BLANK	05/30/14	102	95	96	90	Pass	Pass	Pass	Pass
CRHE-IDW193876 1:10	05/30/14	103	99	95	91	Pass	Pass	Pass	Pass
CRHE-DPT0280-043.0 MS	05/30/14	104	97	95	94	Pass	Pass	Pass	Pass
CRHE-DPT0280-043.0 MSD	05/30/14	104	94	93	92	Pass	Pass	Pass	Pass
CCS 20	05/30/14	102	92	97	99	Pass	Pass	Pass	Pass
BLANK/TUNE	06/02/14	105	101	94	102	Pass	Pass	Pass	Pass
CCS 50	06/02/14	102	97	95	111	Pass	Pass	Pass	Pass
LCS 20	06/02/14	102	95	94	108	Pass	Pass	Pass	Pass
BLANK	06/02/14	101	95	96	103	Pass	Pass	Pass	Pass
CRHE-DPT0281-028.0	06/02/14	104	97	94	104	Pass	Pass	Pass	Pass
CRHE-DPT0281-033.0	06/02/14	105	99	94	103	Pass	Pass	Pass	Pass
CRHE-DPT0281-038.0	06/02/14	104	98	96	104	Pass	Pass	Pass	Pass
CRHE-DPT0281-043.0	06/02/14	105	97	94	100	Pass	Pass	Pass	Pass
CRHE-DPT0281-043.0 MS	06/02/14	108	99	92	109	Pass	Pass	Pass	Pass
CRHE-DPT0281-043.0 MSD	06/02/14	103	93	95	110	Pass	Pass	Pass	Pass
CRHE-DPT0281-048.0	06/02/14	105	98	95	102	Pass	Pass	Pass	Pass
CRHE-DPT0282-023.0	06/02/14	105	97	95	100	Pass	Pass	Pass	Pass
CRHE-DPT0282-028.0	06/02/14	104	100	94	103	Pass	Pass	Pass	Pass
CRHE-DPT0282-033.0	06/02/14	105	97	95	103	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0282-038.0	06/02/14	107	101	93	104	Pass	Pass	Pass	Pass
CRHE-DPT0282-043.0	06/02/14	105	98	94	102	Pass	Pass	Pass	Pass
CRHE-DPT0282-048.0	06/02/14	104	96	95	102	Pass	Pass	Pass	Pass
CRHE-DPT0282-058.0	06/02/14	104	96	95	103	Pass	Pass	Pass	Pass
CRHE-DPT0283-028.0	06/02/14	107	102	93	103	Pass	Pass	Pass	Pass
CRHE-DPT0283-033.0	06/02/14	104	100	94	103	Pass	Pass	Pass	Pass
CRHE-DPT0283-038.0	06/02/14	105	96	94	104	Pass	Pass	Pass	Pass
CRHE-DPT0283-043.0	06/02/14	102	92	95	102	Pass	Pass	Pass	Pass
CRHE-DPT0283-048.0	06/02/14	106	98	95	102	Pass	Pass	Pass	Pass
CRHE-DPT0284-028.0	06/02/14	106	104	93	102	Pass	Pass	Pass	Pass
CRHE-DPT0284-033.0	06/02/14	105	96	94	105	Pass	Pass	Pass	Pass
CRHE-DPT0284-038.0	06/02/14	106	102	93	101	Pass	Pass	Pass	Pass
LCS 20	06/02/14	112	113	91	104	Pass	Pass	Pass	Pass
BLANK	06/02/14	104	97	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0284-043.0	06/02/14	105	103	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0284-048.0	06/02/14	104	98	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0284-058.0	06/02/14	107	97	93	103	Pass	Pass	Pass	Pass
CRHE-IDW195127 1:10	06/02/14	105	97	94	101	Pass	Pass	Pass	Pass
CRHE-DPT0284-058.0 MS	06/02/14	106	99	94	102	Pass	Pass	Pass	Pass
CRHE-DPT0284-058.0 MSD	06/02/14	108	104	94	105	Pass	Pass	Pass	Pass
CCS 50	06/02/14	103	94	96	107	Pass	Pass	Pass	Pass
BLANK/TUNE	06/03/14	103	109	96	97	Pass	Pass	Pass	Pass
CCS 50	06/03/14	96	96	96	104	Pass	Pass	Pass	Pass
LCS 20	06/03/14	97	96	99	100	Pass	Pass	Pass	Pass
BLANK	06/03/14	99	100	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0285-033.0	06/03/14	94	99	105	103	Pass	Pass	Pass	Pass
CRHE-DPT0285-038.0	06/03/14	98	98	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0285-043.0	06/03/14	93	97	105	102	Pass	Pass	Pass	Pass
CRHE-DPT0285-048.0	06/03/14	95	101	105	104	Pass	Pass	Pass	Pass
CRHE-DPT0285-058.0	06/03/14	98	101	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0285-058.0 MS	06/03/14	99	101	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0285-058.0 MSD	06/03/14	96	96	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0286-028.0	06/03/14	99	99	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0286-033.0	06/03/14	97	100	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0286-038.0	06/03/14	96	99	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0286-043.0	06/03/14	98	99	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0286-048.0	06/03/14	94	100	106	104	Pass	Pass	Pass	Pass
CRHE-DPT0286-058.0	06/03/14	100	102	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0286-058.0 MS	06/03/14	99	103	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0286-058.0 MSD	06/03/14	102	107	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0287-028.0	06/03/14	101	104	97	98	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0287-033.0	06/03/14	98	100	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0287-038.0	06/03/14	98	98	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0287-043.0	06/03/14	98	102	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0288-028.0	06/03/14	98	100	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0288-033.0	06/03/14	99	100	101	98	Pass	Pass	Pass	Pass
CRHE-DPT0288-038.0	06/03/14	101	104	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0288-043.0	06/03/14	98	98	99	99	Pass	Pass	Pass	Pass
CRHE-IDW195128 1:10	06/03/14	98	99	99	99	Pass	Pass	Pass	Pass
LCS 20	06/03/14	98	98	100	99	Pass	Pass	Pass	Pass
BLANK	06/03/14	98	102	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0289-010.0	06/03/14	99	99	101	99	Pass	Pass	Pass	Pass
CRHE-DPT0289-018.0	06/03/14	92	93	106	103	Pass	Pass	Pass	Pass
CRHE-DPT0289-018.0 MS	06/03/14	98	100	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0289-018.0 MSD	06/03/14	101	102	98	100	Pass	Pass	Pass	Pass
CCS 50	06/03/14	95	90	101	106	Pass	Pass	Pass	Pass
BLANK/TUNE	06/04/14	99	97	98	100	Pass	Pass	Pass	Pass
CCS 50	06/04/14	97	97	99	105	Pass	Pass	Pass	Pass
LCS 20	06/04/14	96	94	99	109	Pass	Pass	Pass	Pass
BLANK	06/04/14	96	96	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0289-023.0	06/04/14	93	94	105	100	Pass	Pass	Pass	Pass
CRHE-DPT0289-023.0 MS	06/04/14	99	95	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0289-023.0 MSD	06/04/14	98	95	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0289-028.0	06/04/14	101	102	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0289-033.0	06/04/14	97	99	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0289-038.0 1:50	06/04/14	92	97	106	102	Pass	Pass	Pass	Pass
CRHE-DPT0289-043.0 1:100	06/04/14	90	92	107	103	Pass	Pass	Pass	Pass
CRHE-DPT0289-048.0 1:50	06/04/14	92	95	105	104	Pass	Pass	Pass	Pass
CRHE-DPT0289-058.0	06/04/14	92	97	105	104	Pass	Pass	Pass	Pass
CRHE-DPT0290-033.0	06/04/14	94	99	104	103	Pass	Pass	Pass	Pass
CRHE-DPT0290-038.0	06/04/14	99	100	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0290-043.0	06/04/14	99	95	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0290-048.0 1:20	06/04/14	97	97	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0290-058.0	06/04/14	99	98	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0290-058.0 MS	06/04/14	101	104	97	103	Pass	Pass	Pass	Pass
CRHE-DPT0290-058.0 MSD	06/04/14	100	102	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0291-033.0 1:20	06/04/14	98	96	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0291-038.0 1:100	06/04/14	98	95	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0291-043.0 1:50	06/04/14	98	97	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0291-048.0	06/04/14	99	100	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0291-058.0	06/04/14	97	95	99	98	Pass	Pass	Pass	Pass
LCS 20	06/04/14	104	111	95	100	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	06/04/14	103	107	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0292-033.0 1:20	06/04/14	98	96	100	96	Pass	Pass	Pass	Pass
CRHE-DPT0292-038.0 1:20	06/05/14	91	89	98	98	Pass	Pass	Pass	Pass
BLANK/TUNE	06/05/14	100	100	97	98	Pass	Pass	Pass	Pass
CCS 50	06/05/14	98	99	98	105	Pass	Pass	Pass	Pass
LCS 20	06/05/14	100	100	97	101	Pass	Pass	Pass	Pass
BLANK	06/05/14	97	95	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0292-43 1:20	06/05/14	96	92	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0292-048.0	06/05/14	100	98	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0292-058.0	06/05/14	98	97	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0292-058.0 MS	06/05/14	100	98	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0292-058.0 MSD	06/05/14	100	99	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0293-033.0	06/05/14	99	100	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0293-038.0	06/05/14	100	100	98	97	Pass	Pass	Pass	Pass
CRHE-DPT0293-043.0 1:10	06/05/14	98	94	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0293-048.0 1:10	06/05/14	98	97	99	97	Pass	Pass	Pass	Pass
CRHE-DPT0293-058.0	06/05/14	98	96	98	100	Pass	Pass	Pass	Pass
CRHE-IDW195129 1:10	06/05/14	102	106	97	99	Pass	Pass	Pass	Pass
CRHE-DPT0294-018.0	06/05/14	101	102	97	99	Pass	Pass	Pass	Pass
CRHE-DPT0294-023.0	06/05/14	103	101	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0294-028.0	06/05/14	101	104	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0294-033.0 1:200	06/05/14	98	98	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0294-038.0	06/05/14	100	107	97	99	Pass	Pass	Pass	Pass
CRHE-DPT0294-043.0	06/05/14	100	98	96	100	Pass	Pass	Pass	Pass
CCS 50	06/05/14	95	90	101	102	Pass	Pass	Pass	Pass
BLANK/TUNE	06/06/14	101	101	98	100	Pass	Pass	Pass	Pass
CCS 50	06/06/14	99	96	98	103	Pass	Pass	Pass	Pass
LCS 20	06/06/14	102	102	95	111	Pass	Pass	Pass	Pass
BLANK	06/06/14	100	97	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0295-018.0	06/06/14	102	102	97	98	Pass	Pass	Pass	Pass
CRHE-DPT0295-023.0	06/06/14	102	98	96	95	Pass	Pass	Pass	Pass
CRHE-DPT0295-023.0 MS	06/06/14	101	100	97	98	Pass	Pass	Pass	Pass
CRHE-DPT0295-023.0 MSD	06/06/14	101	96	97	98	Pass	Pass	Pass	Pass
CRHE-DPT0295-028.0	06/06/14	104	107	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0295-033.0 1:200	06/06/14	100	102	96	99	Pass	Pass	Pass	Pass
BLANK	06/06/14	107	109	94	99	Pass	Pass	Pass	Pass
CRHE-DPT0295-038.0 1:10	06/06/14	100	100	96	101	Pass	Pass	Pass	Pass
CRHE-DPT0295-043.0	06/06/14	101	104	96	101	Pass	Pass	Pass	Pass
CRHE-DPT0296-033.0	06/06/14	104	106	95	99	Pass	Pass	Pass	Pass
CRHE-DPT0296-038.0 1:10	06/06/14	100	96	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0296-043.0 1:10	06/06/14	102	102	97	98	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0296-048.0 1:20	06/06/14	102	98	96	99	Pass	Pass	Pass	Pass
CCS 50	06/06/14	100	95	98	103	Pass	Pass	Pass	Pass
BLANK/TUNE	06/09/14	111	117	90	100	Pass	Pass	Pass	Pass
CCS 50	06/09/14	103	97	94	105	Pass	Pass	Pass	Pass
LCS 20	06/09/14	105	100	93	112	Pass	Pass	Pass	Pass
BLANK	06/09/14	104	102	93	98	Pass	Pass	Pass	Pass
CRHE-DPT0296-058.0	06/09/14	106	101	93	99	Pass	Pass	Pass	Pass
CRHE-DPT0296-058.0 MS	06/09/14	105	101	94	102	Pass	Pass	Pass	Pass
CRHE-DPT0296-058.0 MSD	06/09/14	104	98	94	105	Pass	Pass	Pass	Pass
CRHE-DPT0297-033.0	06/09/14	105	100	93	99	Pass	Pass	Pass	Pass
CRHE-DPT0297-038.0	06/09/14	105	99	93	98	Pass	Pass	Pass	Pass
CRHE-DPT0297-043.0 1:10	06/09/14	105	103	94	98	Pass	Pass	Pass	Pass
CRHE-DPT0297-048.0 1:10	06/09/14	106	103	94	99	Pass	Pass	Pass	Pass
CRHE-DPT0298-033.0 1:10	06/09/14	106	104	94	100	Pass	Pass	Pass	Pass
CRHE-DPT0298-038.0 1;10	06/09/14	107	106	93	98	Pass	Pass	Pass	Pass
CRHE-DPT0298-043.0 1;20	06/09/14	104	99	94	99	Pass	Pass	Pass	Pass
CRHE-DPT0298-048.0 1:10	06/09/14	106	102	93	97	Pass	Pass	Pass	Pass
CRHE-DPT0298-058.0	06/09/14	109	109	92	99	Pass	Pass	Pass	Pass
CRHE-IDW195130 1:10	06/09/14	105	104	94	100	Pass	Pass	Pass	Pass
CRHE-DPT0299-033.0	06/09/14	107	106	93	99	Pass	Pass	Pass	Pass
CRHE-DPT0299-038.0	06/09/14	106	106	92	100	Pass	Pass	Pass	Pass
CRHE-DPT0299-043.0	06/09/14	108	106	92	98	Pass	Pass	Pass	Pass
CRHE-DPT0299-048.0	06/09/14	108	104	91	99	Pass	Pass	Pass	Pass
CRHE-DPT0300-038.0	06/09/14	107	106	93	98	Pass	Pass	Pass	Pass
CRHE-DPT0300-043.0	06/09/14	108	104	91	98	Pass	Pass	Pass	Pass
CRHE-DPT0300-048.0	06/09/14	108	104	93	98	Pass	Pass	Pass	Pass
CCS 50	06/09/14	105	96	96	103	Pass	Pass	Pass	Pass
BLANK/TUNE	06/10/14	97	99	98	100	Pass	Pass	Pass	Pass
CCS 50	06/10/14	96	96	99	104	Pass	Pass	Pass	Pass
LCS 20	06/10/14	99	102	99	105	Pass	Pass	Pass	Pass
BLANK	06/10/14	97	98	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0300-058.0	06/10/14	98	100	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0300-058.0 MS	06/10/14	97	100	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0300-058.0 MSD	06/10/14	97	99	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0301-038.0 1:20	06/10/14	99	98	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0301-043.0 1:20	06/10/14	100	100	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0301-048.0 1:10	06/10/14	96	97	101	101	Pass	Pass	Pass	Pass
CRHE-DPT0301-058.0	06/10/14	100	101	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0302-043.0 1:20	06/10/14	98	97	102	100	Pass	Pass	Pass	Pass
CRHE-DPT0302-048.0 1:10	06/10/14	97	98	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0303-038.0	06/10/14	100	110	99	102	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0303-043.0	06/10/14	98	103	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0303-048.0	06/10/14	97	99	100	98	Pass	Pass	Pass	Pass
CRHE-DPT0304-033.0	06/10/14	100	107	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0304-038.0	06/10/14	99	98	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0304-043.0	06/10/14	98	102	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0304-048.0	06/10/14	99	104	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0304-058.0	06/10/14	100	102	99	100	Pass	Pass	Pass	Pass
CRHE-IDW197034 1:10	06/10/14	100	103	99	103	Pass	Pass	Pass	Pass
CRHE-DPT0305-038.0	06/10/14	100	104	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0305-043.0	06/10/14	100	102	98	99	Pass	Pass	Pass	Pass
CCS 50	06/10/14	94	92	102	104	Pass	Pass	Pass	Pass
BLANK/TUNE	06/11/14	100	107	98	99	Pass	Pass	Pass	Pass
CCS 50	06/11/14	99	97	100	104	Pass	Pass	Pass	Pass
LCS 20	06/11/14	98	97	98	103	Pass	Pass	Pass	Pass
BLANK	06/11/14	97	100	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0306-033.0 1:5	06/11/14	98	99	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0306-038.0	06/11/14	102	108	97	97	Pass	Pass	Pass	Pass
CRHE-DPT0306-043.0	06/11/14	99	99	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0306-043.0 MS	06/11/14	100	101	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0306-043.0 MSD	06/11/14	97	98	100	105	Pass	Pass	Pass	Pass
CRHE-DPT0307-028.0	06/11/14	99	100	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0307-033.0	06/11/14	99	103	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0307-038.0	06/11/14	99	100	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0307-043.0	06/11/14	100	103	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0307-048.0	06/11/14	102	107	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0307-058.0	06/11/14	100	99	102	101	Pass	Pass	Pass	Pass
CRHE-DPT0308-028.0	06/11/14	102	109	97	99	Pass	Pass	Pass	Pass
CRHE-DPT0308-033.0	06/11/14	99	99	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0308-038.0	06/11/14	99	100	98	98	Pass	Pass	Pass	Pass
CCS 50	06/11/14	96	94	101	104	Pass	Pass	Pass	Pass
LCS 20	06/11/14	99	104	97	114	Pass	Pass	Pass	Pass
BLANK	06/11/14	99	101	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0308-043.0	06/11/14	100	104	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0308-048.0	06/11/14	102	103	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0308-058.0	06/11/14	99	102	97	98	Pass	Pass	Pass	Pass
CCS 50	06/11/14	95	92	101	106	Pass	Pass	Pass	Pass
BLANK/TUNE	06/12/14	99	98	99	99	Pass	Pass	Pass	Pass
CCS 50	06/12/14	97	92	100	106	Pass	Pass	Pass	Pass
LCS 20	06/12/14	98	98	98	104	Pass	Pass	Pass	Pass
BLANK	06/12/14	99	98	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0309-033.0	06/12/14	101	100	99	100	Pass	Pass	Pass	Pass

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-13
On-site Dates: 5/28/14-6/13/14	**Client Project Manager**: Crystal Towns	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0309-038.0 1:10	06/12/14	101	101	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0309-043.0 1:10	06/12/14	98	97	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0309-048.0	06/12/14	103	108	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0309-058.0	06/12/14	99	100	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0309-058.0 MS	06/12/14	100	100	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0309-058.0 MSD	06/12/14	99	98	99	102	Pass	Pass	Pass	Pass
CRHE-DPT0310-033.0	06/12/14	102	103	99	99	Pass	Pass	Pass	Pass
CRHE-DPT0310-038.0	06/12/14	100	101	96	99	Pass	Pass	Pass	Pass
CRHE-DPT0310-043.0	06/12/14	99	101	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0310-048.0	06/12/14	99	100	98	98	Pass	Pass	Pass	Pass
CRHE-DPT0310-058.0	06/12/14	99	98	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0311-033.0 1:10	06/12/14	101	102	97	99	Pass	Pass	Pass	Pass
CRHE-DPT0311-038.0 1:20	06/12/14	98	97	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0311-043.0 1:50	06/12/14	99	104	98	98	Pass	Pass	Pass	Pass
CCS 50	06/12/14	97	99	101	105	Pass	Pass	Pass	Pass
BLANK/TUNE	06/13/14	102	107	96	100	Pass	Pass	Pass	Pass
CCS 50	06/13/14	99	100	99	104	Pass	Pass	Pass	Pass
LCS 20	06/13/14	97	96	98	105	Pass	Pass	Pass	Pass
BLANK	06/13/14	101	103	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0311-048.0	06/13/14	104	104	97	98	Pass	Pass	Pass	Pass
CRHE-DPT0311-058.0	06/13/14	102	99	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0311-048.0 1:20	06/13/14	100	98	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0312-033.0	06/13/14	101	105	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0312-038.0	06/13/14	99	96	100	100	Pass	Pass	Pass	Pass
CRHE-DPT0312-043.0 1:10	06/13/14	100	100	100	99	Pass	Pass	Pass	Pass
CRHE-DPT0312-048.0 1:10	06/13/14	101	100	98	100	Pass	Pass	Pass	Pass
CRHE-DPT0312-058.0	06/13/14	100	100	98	97	Pass	Pass	Pass	Pass
CRHE-IDW197035 1:10	06/13/14	101	102	97	101	Pass	Pass	Pass	Pass
CRHE-DPT0311-058.0 MS	06/13/14	101	99	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0311-058.0 MSD	06/13/14	99	95	98	104	Pass	Pass	Pass	Pass
CRHE-DPT0313-033.0	06/13/14	100	101	98	101	Pass	Pass	Pass	Pass
CRHE-DPT0313-038.0	06/13/14	100	97	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0313-043.0	06/13/14	101	97	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0313-048.0	06/13/14	99	98	98	101	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0268-058.0 **Date of Analysis:** 5/28/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	84	94	12	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	116	115	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	103	106	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	106	105	1	Pass	Pass	Pass
Trichloroethene	52	143	20	101	104	3	Pass	Pass	Pass
Tetrachloroethene	50	144	20	98	101	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT272-058.0 **Date of Analysis:** 5/28/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	86	90	5	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	98	102	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	91	94	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	92	94	2	Pass	Pass	Pass
Trichloroethene	52	143	20	90	93	4	Pass	Pass	Pass
Tetrachloroethene	50	144	20	89	91	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0274-058.0 **Date of Analysis:** 5/29/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	100	87	13	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	119	113	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	109	102	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	111	103	7	Pass	Pass	Pass
Trichloroethene	52	143	20	108	99	8	Pass	Pass	Pass
Tetrachloroethene	50	144	20	102	94	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0277-058.0 **Date of Analysis:** 5/30/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	80	86	7	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	73	95	26	Pass	Pass	> RPDL
Trans-1,2-Dichloroethene	37	155	20	105	94	11	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	111	97	13	Pass	Pass	Pass
Trichloroethene	52	143	20	104	95	10	Pass	Pass	Pass
Tetrachloroethene	50	144	20	103	90	14	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Samples: CRHE-DPT0280-043.0 **Date of Analysis:** 5/30/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	61	83	32	Pass	Pass	> RPDL
1,1-Dichloroethene	30	165	20	58	67	13	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	92	100	8	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	97	102	5	Pass	Pass	Pass
Trichloroethene	52	143	20	90	101	12	Pass	Pass	Pass
Tetrachloroethene	50	144	20	89	95	7	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0281-043.0 **Date of Analysis:**

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	84	63	29	Pass	Pass	> RPDL
1,1-Dichloroethene	30	165	20	106	146	31	Pass	Pass	> RPDL
Trans-1,2-Dichloroethene	37	155	20	59	87	38	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	29	163	20	107	90	17	Pass	Pass	Pass
Trichloroethene	52	143	20	104	96	7	Pass	Pass	Pass
Tetrachloroethene	50	144	20	100	98	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0284-058.0 **Date of Analysis:** 6/2/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	84	NA	NA	Pass	NA	NA
1,1-Dichloroethene	30	165	20	157	NA	NA	Pass	NA	NA
Trans-1,2-Dichloroethene	37	155	20	98	NA	NA	Pass	NA	NA
Cis-1,2-Dichloroethene	29	163	20	103	NA	NA	Pass	NA	NA
Trichloroethene	52	143	20	105	NA	NA	Pass	NA	NA
Tetrachloroethene	50	144	20	102	NA	NA	Pass	NA	NA

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines. MSD not spiked.

Samples: CRHE-DPT0285-058.0 **Date of Analysis:** 6/3/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	111	100	10	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	110	96	14	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	97	85	13	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	96	87	10	Pass	Pass	Pass
Trichloroethene	52	143	20	97	88	10	Pass	Pass	Pass
Tetrachloroethene	50	144	20	99	91	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Samples: CRHE-DPT0286-058.0 **Date of Analysis:** 6/3/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	108	105	2	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	105	105	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	94	93	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	94	93	1	Pass	Pass	Pass
Trichloroethene	52	143	20	95	94	2	Pass	Pass	Pass
Tetrachloroethene	50	144	20	96	96	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0289-018.0 **Date of Analysis:** 6/3/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	108	NA	NA	Pass	NA	NA
1,1-Dichloroethene	30	165	20	107	NA	NA	Pass	NA	NA
Trans-1,2-Dichloroethene	37	155	20	95	NA	NA	Pass	NA	NA
Cis-1,2-Dichloroethene	29	163	20	92	NA	NA	Pass	NA	NA
Trichloroethene	52	143	20	97	NA	NA	Pass	NA	NA
Tetrachloroethene	50	144	20	100	NA	NA	Pass	NA	NA

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines. MSD not spiked.

Samples: CRHE-DPT0289-023.0 **Date of Analysis:** 6/4/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	108	105	3	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	109	105	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	95	93	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	94	94	0	Pass	Pass	Pass
Trichloroethene	52	143	20	96	96	0	Pass	Pass	Pass
Tetrachloroethene	50	144	20	99	99	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0290-058.0 **Date of Analysis:** 6/4/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	124	115	7	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	126	113	11	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	110	102	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	108	100	7	Pass	Pass	Pass
Trichloroethene	52	143	20	112	102	9	Pass	Pass	Pass
Tetrachloroethene	50	144	20	113	105	7	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Samples: CRHE-DPT0292-058.0 **Date of Analysis:** 6/5/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	97	103	6	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	104	107	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	93	95	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	91	96	5	Pass	Pass	Pass
Trichloroethene	52	143	20	93	97	5	Pass	Pass	Pass
Tetrachloroethene	50	144	20	96	100	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0295-023.0 **Date of Analysis:** 6/6/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	88	90	2	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	101	101	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	88	88	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	91	90	2	Pass	Pass	Pass
Trichloroethene	52	143	20	91	88	3	Pass	Pass	Pass
Tetrachloroethene	50	144	20	91	88	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0296-058.0 **Date of Analysis:** 6/9/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	102	94	8	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	109	97	11	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	96	87	10	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	99	90	10	Pass	Pass	Pass
Trichloroethene	52	143	20	100	92	8	Pass	Pass	Pass
Tetrachloroethene	50	144	20	97	89	9	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0300-058.0 **Date of Analysis:** 6/10/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	102	97	6	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	104	98	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	92	88	4	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	91	86	5	Pass	Pass	Pass
Trichloroethene	52	143	20	93	87	6	Pass	Pass	Pass
Tetrachloroethene	50	144	20	95	90	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Samples: CRHE-DPT0306-043.0 **Date of Analysis:** 6/11/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	99	89	10	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	106	100	6	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	94	87	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	94	89	5	Pass	Pass	Pass
Trichloroethene	52	143	20	94	88	7	Pass	Pass	Pass
Tetrachloroethene	50	144	20	95	91	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0309-058.0 **Date of Analysis:** 6/12/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	102	95	8	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	108	98	10	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	92	88	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	95	87	9	Pass	Pass	Pass
Trichloroethene	52	143	20	98	88	11	Pass	Pass	Pass
Tetrachloroethene	50	144	20	97	90	8	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0311-058.0 **Date of Analysis:** 6/13/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	94	92	2	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	107	106	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	94	94	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	44	43	1	Pass	Pass	Pass
Trichloroethene	52	143	20	98	96	3	Pass	Pass	Pass
Tetrachloroethene	50	144	20	97	97	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 — **Date of Analysis:** 5/28/2014
LCS 2 — 5/28/2014
LCS 3 — 5/29/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	23	to	168	116	106	86	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	124	123	109	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	120	110	96	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	122	109	101	Pass	Pass	Pass
Trichloroethene	55	to	145	115	110	95	Pass	Pass	Pass
Tetrachloroethene	53	to	147	109	105	94	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 — **Date of Analysis:** 5/30/2014
LCS 5 — 5/30/2014
LCS 6 — 6/2/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	23	to	168	91	75	77	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	100	64	143	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	100	94	88	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	102	96	90	Pass	Pass	Pass
Trichloroethene	55	to	145	100	95	98	Pass	Pass	Pass
Tetrachloroethene	53	to	147	95	91	99	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 — **Date of Analysis:** 6/2/2014
LCS 8 — 6/3/2014
LCS 9 — 6/3/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	23	to	168	110	99	108	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	177	97	107	> UCL	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	118	87	95	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	123	85	93	Pass	Pass	Pass
Trichloroethene	55	to	145	135	88	96	Pass	Pass	Pass
Tetrachloroethene	53	to	147	123	91	100	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Samples: LCS 10 **Date of Analysis:** 6/4/2014
LCS 11 6/4/2014
LCS 12 6/5/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS#11	LCS#12	LCS#10	LCS#11	LCS#12
Vinyl Chloride	23	to	168	101	132	110	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	102	133	113	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	90	118	99	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	87	117	99	Pass	Pass	Pass
Trichloroethene	55	to	145	91	120	103	Pass	Pass	Pass
Tetrachloroethene	53	to	147	94	118	106	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 13 **Date of Analysis:** 6/6/2014
LCS 14 6/9/2014
LCS 15 6/10/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#13	LCS#14	LCS#15	LCS#13	LCS#14	LCS#15
Vinyl Chloride	23	to	168	114	107	106	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	117	111	109	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	101	97	97	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	103	103	95	Pass	Pass	Pass
Trichloroethene	55	to	145	105	105	97	Pass	Pass	Pass
Tetrachloroethene	53	to	147	106	102	99	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 16 **Date of Analysis:** 6/11/2014
LCS 17 6/11/2014
LCS 18 6/12/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#16	LCS#17	LCS#18	LCS#16	LCS#17	LCS#18
Vinyl Chloride	23	to	168	102	115	94	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	102	114	97	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	92	100	85	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	90	100	85	Pass	Pass	Pass
Trichloroethene	55	to	145	93	101	89	Pass	Pass	Pass
Tetrachloroethene	53	to	147	95	103	87	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-13
Onsite Dates: 5/28/14-6/13/14	**Client Project Manager:** Crystal Towns	**Matrix**: Water

Samples: LCS 19 **Date of Analysis:** 6/13/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#19			LCS#19		
Vinyl Chloride	23	to	168	100			Pass		
1,1-Dichloroethene	39	to	161	103			Pass		
Trans-1,2-Dichloroethene	40	to	153	92			Pass		
Cis-1,2-Dichloroethene	51	to	143	92			Pass		
Trichloroethene	55	to	145	93			Pass		
Tetrachloroethene	53	to	147	95			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0268-033.0-20140528	5/28/2014	09:01	Water	1, 5	**68**	0.30 U	**2.9**	**0.64 I**	0.19 U	0.23 U
CRHE-DPT0268-038.0-20140528	5/28/2014	09:21	Water	1, 500	**2100**	0.30 U	**19.9**	**5.4**	0.19 U	0.23 U
CRHE-DPT0268-043.0-20140528	5/28/2014	09:39	Water	1, 200	**1800**	0.30 U	**22.1**	**34.2**	0.19 U	0.23 U
CRHE-DPT0268-048.0-20140528	5/28/2014	09:56	Water	1, 100	**370**	0.30 U	**5.5**	**20.3**	0.19 U	0.23 U
CRHE-DPT0268-058.0-20140528	5/28/2014	10:17	Water	1	**1.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0269-038.0-20140528	5/28/2014	10:51	Water	200	**920**	60 U	**190 I**	**5700**	38 U	46 U
CRHE-DPT0269-043.0-20140528	5/28/2014	11:08	Water	100	**610**	30 U	**280**	**8100**	**1200**	23 U
CRHE-DPT0269-048.0-20140528	5/28/2014	11:22	Water	50	**160**	15 U	**70**	**2000**	9.5 U	12 U
CRHE-DPT0269-058.0-20140528	5/28/2014	11:41	Water	1	**2.1**	0.30 U	**0.36 I**	**19.3**	**0.28 I**	0.23 U
CRHE-DPT0270-038.0-20140528	5/28/2014	12:56	Water	1, 20	**450**	**1.4**	**24.6**	**860**	**4.1**	0.23 U
CRHE-DPT0270-043.0-20140528	5/28/2014	13:45	Water	100	**1100**	30 U	**180**	**7100**	**100**	23 U
CRHE-DPT0270-048.0-20140528	5/28/2014	14:05	Water	100	**280**	30 U	**140**	**4300**	**270**	23 U
CRHE-DPT0270-058.0-20140528	5/28/2014	14:27	Water	1	**0.67 I**	0.30 U	0.29 U	**2.2**	0.19 U	0.23 U
CRHE-DPT0271-038.0-20140528	5/28/2014	14:51	Water	1, 10	**160**	0.30 U	**6.4**	**0.35 I**	0.19 U	0.23 U
CRHE-DPT0271-043.0-20140528	5/28/2014	15:09	Water	1, 500	**4500**	0.30 U	**19.9**	0.22 U	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0271-048.0-20140528	5/28/2014	15:28	Water	50	**2500**	15 U	**51**	**2400**	9.5 U	12 U
CRHE-DPT0271-058.0-20140528	5/28/2014	15:49	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0272-038.0-20140528	5/28/2014	16:23	Water	1, 20	**1300**	0.30 U	**13.2**	**54.1**	0.19 U	0.23 U
CRHE-DPT0272-043.0-20140528	5/28/2014	16:42	Water	1, 20	**1400**	**1.3**	**22.3**	**690**	**0.68 I**	0.23 U
CRHE-DPT0272-048.0-20140528	5/28/2014	17:01	Water	100	**1200**	30 U	**140**	**4800**	**340**	23 U
CRHE-DPT0272-058.0-20140528	5/28/2014	17:45	Water	1	**1.4**	0.30 U	0.29 U	**0.54 I**	0.19 U	0.23 U
CRHE-DPT0273-038.0-20140529	5/29/2014	07:29	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0273-043.0-20140529	5/29/2014	07:48	Water	1	0.26 U	0.30 U	**0.56 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0273-048.0-20140529	5/29/2014	08:09	Water	1	**67.8**	0.30 U	**2.6**	**12.0**	0.19 U	0.23 U
CRHE-DPT0273-058.0-20140529	5/29/2014	08:28	Water	1	**0.59 I**	0.30 U	0.29 U	**0.24 I**	0.19 U	0.23 U
CRHE-DPT0227-048.0-20140529	5/29/2014	09:06	Water	50	**1300**	15 U	**37 I**	**1900**	9.5 U	12 U
CRHE-DPT0274-033.0-20140529	5/29/2014	09:44	Water	1	**0.64 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0274-038.0-20140529	5/29/2014	10:02	Water	1	**7.8**	0.30 U	**1.9**	0.22 U	0.19 U	0.23 U
CRHE-DPT0274-043.0-20140529	5/29/2014	10:22	Water	1, 20	**530**	0.30 U	**5.5**	**2.1**	0.19 U	0.23 U
CRHE-DPT0274-048.0-20140529	5/29/2014	10:42	Water	20	**870**	6.0 U	**38**	**1400**	3.8 U	4.6 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0274-058.0-20140529	5/29/2014	11:32	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0275-038.0-20140529	5/29/2014	12:39	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0275-043.0-20140529	5/29/2014	13:02	Water	1	0.26 U	0.30 U	**0.43 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0275-048.0-20140529	5/29/2014	13:20	Water	1	0.26 U	0.30 U	**0.30 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0275-058.0-20140529	5/29/2014	13:42	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0276-033.0-20140529	5/29/2014	14:15	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0276-038.0-20140529	5/29/2014	14:32	Water	1	0.26 U	0.30 U	**0.34 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0276-043.0-20140529	5/29/2014	14:53	Water	1	**25.7**	0.30 U	**2.8**	**2.5**	0.19 U	0.23 U
CRHE-DPT0276-048.0-20140529	5/29/2014	15:12	Water	1	**100**	0.30 U	**7.1**	**110**	**0.81 I**	0.23 U
CRHE-DPT0276-058.0-20140529	5/29/2014	15:40	Water	1	**0.75 I**	0.30 U	0.29 U	**1.1**	0.19 U	0.23 U
CRHE-DPT0277-038.0-20140530	5/30/2014	07:29	Water	1	0.26 U	0.30 U	0.29 U	**0.90 I**	0.19 U	0.23 U
CRHE-DPT0277-043.0-20140530	5/30/2014	07:46	Water	1	0.26 U	0.30 U	0.29 U	**0.85 I**	0.19 U	0.23 U
CRHE-DPT0277-048.0-20140530	5/30/2014	08:05	Water	1	**1.0**	**1.0**	0.29 U	**3.1**	0.19 U	0.23 U
CRHE-DPT0277-058.0-20140530	5/30/2014	08:25	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0278-028.0-20140530	5/30/2014	08:59	Water	1	**3.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0278-033.0-20140530	5/30/2014	09:15	Water	1	**17.3**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0278-038.0-20140530	5/30/2014	09:33	Water	1	**1.8**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0278-043.0-20140530	5/30/2014	09:49	Water	1	**1.7**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0278-048.0-20140530	5/30/2014	10:07	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0279-028.0-20140530	5/30/2014	10:38	Water	1	**32.4**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0279-033.0-20140530	5/30/2014	11:21	Water	1	**29.8**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0279-038.0-20140530	5/30/2014	11:38	Water	1, 2	**110**	0.30 U	**1.1**	**0.40 I**	0.19 U	0.23 U
CRHE-DPT0279-043.0-20140530	5/30/2014	11:57	Water	1	**100**	0.30 U	**1.3**	**1.7**	0.19 U	0.23 U
CRHE-DPT0279-048.0-20140530	5/30/2014	13:46	Water	1	**2.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0280-023.0-20140530	5/30/2014	14:22	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0280-028.0-20140530	5/30/2014	14:39	Water	1	**1.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0280-033.0-20140530	5/30/2014	15:37	Water	1	**74.9**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0280-038.0-20140530	5/30/2014	15:58	Water	1	**31.9**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0280-043.0-20140530	5/30/2014	16:16	Water	1	**7.4**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0280-048.0-20140530	5/30/2014	16:35	Water	1	**0.93 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0281-028.0-20140602	6/2/2014	07:30	Water	1	**0.35 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0281-033.0-20140602	6/2/2014	07:47	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0281-038.0-20140602	6/2/2014	08:32	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0281-043.0-20140602	6/2/2014	08:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0281-048.0-20140602	6/2/2014	09:09	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0282-023.0-20140602	6/2/2014	09:39	Water	1	**10.7**	0.30 U	0.29 U	**0.30 I**	0.19 U	0.23 U
CRHE-DPT0282-028.0-20140602	6/2/2014	09:54	Water	1	**7.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0282-033.0-20140602	6/2/2014	10:09	Water	1	**49.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0282-038.0-20140602	6/2/2014	10:25	Water	1	**26.5**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0282-043.0-20140602	6/2/2014	10:41	Water	1	**16.5**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0282-048.0-20140602	6/2/2014	11:17	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0282-058.0-20140602	6/2/2014	11:37	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0283-028.0-20140602	6/2/2014	12:36	Water	1	**6.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0283-033.0-20140602	6/2/2014	12:53	Water	1	**29.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0283-038.0-20140602	6/2/2014	13:09	Water	1	**58.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0283-043.0-20140602	6/2/2014	13:28	Water	1	**33.5**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0283-048.0-20140602	6/2/2014	13:49	Water	1	**2.8**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0284-028.0-20140602	6/2/2014	14:25	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0284-033.0-20140602	6/2/2014	14:39	Water	1	**10.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0284-038.0-20140602	6/2/2014	14:57	Water	1	**75.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0284-043.0-20140602	6/2/2014	15:46	Water	1	**35.5**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0284-048.0-20140602	6/2/2014	16:09	Water	1	**4.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0284-058.0-20140602	6/2/2014	16:33	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0285-033.0-20140603	6/3/2014	07:33	Water	1	**48.0**	0.30 U	0.29 U	**7.0**	0.19 U	0.23 U
CRHE-DPT0285-038.0-20140603	6/3/2014	07:59	Water	1	**170**	0.30 U	**1.1**	**49.5**	0.19 U	0.23 U
CRHE-DPT0285-043.0-20140603	6/3/2014	08:17	Water	1	**100**	0.30 U	**0.74 I**	**5.3**	0.19 U	0.23 U
CRHE-DPT0285-048.0-20140603	6/3/2014	08:35	Water	1	**22.6**	0.30 U	0.29 U	**0.93 I**	0.19 U	0.23 U
CRHE-DPT0285-058.0-20140603	6/3/2014	08:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0286-028.0-20140603	6/3/2014	09:32	Water	1	**33.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0286-033.0-20140603	6/3/2014	09:48	Water	1	**36.8**	0.30 U	0.29 U	**0.62 I**	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0286-038.0-20140603	6/3/2014	10:29	Water	1	**63.2**	0.30 U	0.29 U	**0.83 I**	0.19 U	0.23 U
CRHE-DPT0286-043.0-20140603	6/3/2014	10:47	Water	1	**5.7**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0286-048.0-20140603	6/3/2014	11:06	Water	1	**1.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0286-058.0-20140603	6/3/2014	11:34	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0287-028.0-20140603	6/3/2014	12:46	Water	1	**0.89 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0287-033.0-20140603	6/3/2014	13:04	Water	1	**9.6**	0.30 U	0.29 U	**0.28 I**	0.19 U	0.23 U
CRHE-DPT0287-038.0-20140603	6/3/2014	13:25	Water	1	**65.4**	0.30 U	0.29 U	**2.3**	0.19 U	0.23 U
CRHE-DPT0287-043.0-20140603	6/3/2014	13:45	Water	1	**71.1**	0.30 U	0.29 U	**0.83 I**	0.19 U	0.23 U
CRHE-DPT0288-028.0-20140603	6/3/2014	14:43	Water	1	**1.7**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0288-033.0-20140603	6/3/2014	15:01	Water	1	**2.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0288-038.0-20140603	6/3/2014	15:49	Water	1	**24.5**	0.30 U	**0.34 I**	**12.1**	0.19 U	0.23 U
CRHE-DPT0288-043.0-20140603	6/3/2014	16:07	Water	1	**40.6**	0.30 U	**1.3**	**140**	0.19 U	0.23 U
CRHE-DPT0289-010.0-20140603	6/3/2014	16:59	Water	1	**1.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0289-018.0-20140603	6/3/2014	17:12	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0289-023.0-20140604	6/4/2014	07:28	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0289-028.0-20140604	6/4/2014	07:43	Water	1	0.26 U	0.30 U	**0.58 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0289-033.0-20140604	6/4/2014	08:00	Water	1	**110**	0.30 U	**3.5**	**40.8**	0.19 U	0.23 U
CRHE-DPT0289-038.0-20140604	6/4/2014	08:18	Water	50	**550**	15 U	**80**	**2600**	9.5 U	12 U
CRHE-DPT0289-043.0-20140604	6/4/2014	08:35	Water	100	**540**	30 U	**180**	**5600**	**220**	23 U
CRHE-DPT0289-048.0-20140604	6/4/2014	08:54	Water	50	**320**	15 U	**110**	**2700**	**190**	12 U
CRHE-DPT0289-058.0-20140604	6/4/2014	09:43	Water	1	0.26 U	0.30 U	0.29 U	**0.28 I**	0.19 U	0.23 U
CRHE-DPT0290-033.0-20140604	6/4/2014	10:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0290-038.0-20140604	6/4/2014	11:04	Water	1	**4.3**	0.30 U	**0.34 I**	**0.51 I**	0.19 U	0.23 U
CRHE-DPT0290-043.0-20140604	6/4/2014	11:23	Water	1	**58.1**	0.30 U	**3.4**	**120**	0.19 U	0.23 U
CRHE-DPT0290-048.0-20140604	6/4/2014	11:43	Water	20	**230**	6.0 U	**51**	**1500**	3.8 U	4.6 U
CRHE-DPT0290-058.0-20140604	6/4/2014	12:04	Water	1	0.26 U	0.30 U	0.29 U	**0.29 I**	0.19 U	0.23 U
CRHE-DPT0291-033.0-20140604	6/4/2014	14:04	Water	20	**1600**	6.0 U	**45**	**1200**	3.8 U	4.6 U
CRHE-DPT0291-038.0-20140604	6/4/2014	14:28	Water	100	**1100**	30 U	**140**	**4900**	**37 I**	23 U
CRHE-DPT0291-043.0-20140604	6/4/2014	14:41	Water	50	**560**	15 U	**92**	**2500**	**180**	12 U
CRHE-DPT0291-048.0-20140604	6/4/2014	15:02	Water	1	**63.3**	0.30 U	**7.2**	**210**	**0.77 I**	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0291-058.0-20140604	6/4/2014	15:58	Water	1	**0.28 I**	0.30 U	0.29 U	**1.0**	0.19 U	0.23 U
CRHE-DPT0292-033.0-20140604	6/4/2014	16:47	Water	20	**1700**	6.0 U	**23**	**20 I**	3.8 U	4.6 U
CRHE-DPT0292-038.0-20140604	6/4/2014	17:05	Water	20	**1400**	6.0 U	**28**	**25**	3.8 U	4.6 U
CRHE-DPT0292-043.0-20140604	6/5/2014	17:25	Water	20	**1100**	6.0 U	**13 I**	**14 I**	3.8 U	4.6 U
CRHE-DPT0292-048.0-20140605	6/5/2014	08:06	Water	1	**25.4**	0.30 U	**1.0**	**5.8**	0.19 U	0.23 U
CRHE-DPT0292-058.0-20140605	6/5/2014	08:26	Water	1	**4.3**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0293-033.0-20140605	6/5/2014	09;12	Water	1	**0.53 I**	0.30 U	**0.47 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0293-038.0-20140605	6/5/2014	09:28	Water	1	**37.6**	0.30 U	**2.9**	0.22 U	0.19 U	0.23 U
CRHE-DPT0293-043.0-20140605	6/5/2014	09:46	Water	10	**260**	3.0 U	**3.6 I**	**27**	1.9 U	2.3 U
CRHE-DPT0293-048.0-20140605	6/5/2014	10:02	Water	10	**100**	3.0 U	**3.4 I**	**100**	1.9 U	2.3 U
CRHE-DPT0293-058.0-20140605	6/5/2014	11:02	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0294-018.0-20140605	6/5/2014	14:07	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0294-023.0-20140605	6/5/2014	14:29	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0294-028.0-20140605	6/5/2014	14:57	Water	1	**38.6**	0.30 U	**0.66 I**	**34.8**	0.19 U	0.23 U
CRHE-DPT0294-033.0-20140605	6/5/2014	15:53	Water	200	**2200**	60 U	**110 I**	**8400**	**190 I**	46 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0294-038.0-20140605	6/5/2014	16:27	Water	1	**17.5**	0.30 U	**0.74 I**	**58.6**	0.19 U	0.23 U
CRHE-DPT0294-043.0-20140605	6/5/2014	16:56	Water	1	**1.8**	0.30 U	0.29 U	**7.7**	0.19 U	0.23 U
CRHE-DPT0295-018.0-20140606	6/6/2014	09:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0295-023.0-20140606	6/6/2014	10:11	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0295-028.0-20140606	6/6/2014	10:40	Water	1	**8.3**	0.30 U	**2.7**	0.22 U	0.19 U	0.23 U
CRHE-DPT0295-033.0-20140606	6/6/2014	11:51	Water	200	**4300**	60 U	**540**	**20000**	**17000**	46 U
CRHE-DPT0295-038.0-20140606	6/6/2014	13:15	Water	10	**150**	3.0 U	**7.0 I**	**370**	**2.4 I**	2.3 U
CRHE-DPT0295-043.0-20140606	6/6/2014	13:54	Water	1	**8.7**	0.30 U	**3.0**	**146**	**27.8**	0.23 U
CRHE-DPT0296-033.0-20140606	6/6/2014	15:35	Water	1	**21.3**	0.30 U	**1.8**	**0.23 I**	0.19 U	0.23 U
CRHE-DPT0296-038.0-20140606	6/6/2014	15:55	Water	10	**530**	3.0 U	**10**	**31**	1.9 U	2.3 U
CRHE-DPT0296-043.0-20140606	6/6/2014	16:14	Water	10	**150**	3.0 U	**13**	**560**	1.9 U	2.3 U
CRHE-DPT0296-048.0-20140606	6/6/2014	16:37	Water	20	**300**	6.0 U	**63**	**2000**	3.8 U	4.6 U
CRHE-DPT0296-058.0-20140609	6/9/2014	08:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0297-033.0-20140609	6/9/2014	08:36	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0297-038.0-20140609	6/9/2014	08:53	Water	1	**100**	0.30 U	**3.8**	**2.4**	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0297-043.0-20140609	6/9/2014	10:03	Water	10	**590**	3.0 U	**13**	**460**	1.9 U	2.3 U
CRHE-DPT0297-048.0-20140609	6/9/2014	10:22	Water	10	**460**	3.0 U	**8.9 I**	**180**	1.9 U	2.3 U
CRHE-DPT0298-033.0-20140609	6/9/2014	11:14	Water	10	**420**	3.0 U	**14**	**430**	**8.7 I**	2.3 U
CRHE-DPT0298-038.0-20140609	6/9/2014	11:33	Water	10	**430**	3.0 U	**31**	**1300**	**3.8 I**	2.3 U
CRHE-DPT0298-043.0-20140609	6/9/2014	11:52	Water	20	**430**	6.0 U	**49**	**2000**	3.8 U	4.6 U
CRHE-DPT0298-048.0-20140609	6/9/2014	12:12	Water	10	**63**	3.0 U	2.9 U	**52**	1.9 U	2.3 U
CRHE-DPT0298-058.0-20140609	6/9/2014	13:36	Water	1	0.26 U	0.30 U	0.29 U	**1.6**	0.19 U	0.23 U
CRHE-DPT0299-033.0-20140609	6/9/2014	14:41	Water	1	0.26 U	0.30 U	**0.82 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0299-038.0-20140609	6/9/2014	14:59	Water	1	**44.3**	0.30 U	**1.3**	0.22 U	0.19 U	0.23 U
CRHE-DPT0299-043.0-20140609	6/9/2014	15:17	Water	1	**36.2**	0.30 U	**1.7**	**0.33 I**	0.19 U	0.23 U
CRHE-DPT0299-048.0-20140609	6/9/2014	16:10	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0300-038.0-20140609	6/9/2014	16:41	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0300-043.0-20140609	6/9/2014	16:59	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0300-048.0-20140609	6/9/2014	17:18	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0300-058.0-20140610	6/10/2014	07:38	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0301-038.0-20140610	6/10/2014	08:20	Water	20	**670**	6.0 U	**26**	**1000**	**15 I**	4.6 U
CRHE-DPT0301-043.0-20140610	6/10/2014	08:41	Water	20	**370**	6.0 U	**26**	**1200**	3.8 U	4.6 U
CRHE-DPT0301-048.0-20140610	6/10/2014	09:04	Water	10	**130**	3.0 U	**5.1 I**	**180**	1.9 U	2.3 U
CRHE-DPT0301-058.0-20140610	6/10/2014	09:26	Water	1	0.26 U	0.30 U	0.29 U	**1.2**	0.19 U	0.23 U
CRHE-DPT0302-043.0-20140610	6/10/2014	10;03	Water	20	**250**	6.0 U	**30**	**1300**	3.8 U	4.6 U
CRHE-DPT0302-048.0-20140610	6/10/2014	11:55	Water	10	**200**	3.0 U	**14**	**560**	1.9 U	2.3 U
CRHE-DPT0303-038.0-20140610	6/10/2014	13:15	Water	1	**21.9**	0.30 U	0.29 U	**2.8**	0.19 U	0.23 U
CRHE-DPT0303-043.0-20140610	6/10/2014	13:36	Water	1	**18.5**	0.30 U	**1.0**	**80.7**	0.19 U	0.23 U
CRHE-DPT0303-048.0-20140610	6/10/2014	13:56	Water	1	**2.8**	0.30 U	0.29 U	**5.5**	0.19 U	0.23 U
CRHE-DPT0304-033.0-20140610	6/10/2014	14:38	Water	1	**9.6**	0.30 U	0.29 U	**2.1**	0.19 U	0.23 U
CRHE-DPT0304-038.0-20140610	6/10/2014	14:57	Water	1	**90.7**	0.30 U	**1.3**	**7.2**	0.19 U	0.23 U
CRHE-DPT0304-043.0-20140610	6/10/2014	15:16	Water	1	**95.3**	0.30 U	**1.7**	**1.6**	0.19 U	0.23 U
CRHE-DPT0304-048.0-20140610	6/10/2014	15:36	Water	1	**0.88 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0304-058.0-20140610	6/10/2014	15:57	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0305-038.0-20140610	6/10/2014	17:10	Water	1	**19.2**	0.30 U	0.29 U	**13.2**	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0305-043.0-20140610	6/10/2014	17:26	Water	1	**8.9**	0.30 U	0.29 U	**0.70 I**	0.19 U	0.23 U
CRHE-DPT0306-033.0-20140611	6/11/2014	08:19	Water	5	**46**	1.5 U	1.5 U	**230**	0.95 U	1.2 U
CRHE-DPT0306-038.0-20140611	6/11/2014	08:37	Water	1	**66.2**	0.30 U	**0.68 I**	**22.1**	0.19 U	0.23 U
CRHE-DPT0306-043.0-20140611	6/11/2014	08:53	Water	1	**2.2**	0.30 U	0.29 U	**0.26 I**	0.19 U	0.23 U
CRHE-DPT0307-028.0-20140611	6/11/2014	09:22	Water	1	**1.6**	0.30 U	0.29 U	**1.1**	0.19 U	0.23 U
CRHE-DPT0307-033.0-20140611	6/11/2014	09:37	Water	1	**17.7**	0.30 U	0.29 U	**12.6**	0.19 U	0.23 U
CRHE-DPT0307-038.0-20140611	6/11/2014	09:55	Water	1	**31.6**	0.30 U	0.29 U	**7.1**	0.19 U	0.23 U
CRHE-DPT0307-043.0-20140611	6/11/2014	10:12	Water	1	**28.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0307-048.0-20140611	6/11/2014	10:32	Water	1	**11.4**	0.30 U	0.29 U	**0.33 I**	0.19 U	0.23 U
CRHE-DPT0307-058.0-20140611	6/11/2014	11:30	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0308-028.0-20140611	6/11/2014	15:14	Water	1	**13.8**	0.30 U	0.29 U	**4.8**	0.19 U	0.23 U
CRHE-DPT0308-033.0-20140611	6/11/2014	15:28	Water	1	**20.3**	0.30 U	0.29 U	**10.3**	0.19 U	0.23 U
CRHE-DPT0308-038.0-20140611	6/11/2014	15:45	Water	1	**70.9**	0.30 U	0.29 U	**21.7**	0.19 U	0.23 U
CRHE-DPT0308-043.0-20140611	6/11/2014	17:37	Water	1	**59.9**	0.30 U	0.29 U	**9.4**	0.19 U	0.23 U
CRHE-DPT0308-048.0-20140611	6/11/2014	17:54	Water	1	**25.0**	0.30 U	0.29 U	**0.36 I**	0.19 U	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0308-058.0-20140611	6/11/2014	18:14	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0309-033.0-20140612	6/12/2014	08:45	Water	1	**0.53 I**	0.30 U	**1.4**	0.22 U	0.19 U	0.23 U
CRHE-DPT0309-038.0-20140612	6/12/2014	09:02	Water	10	**450**	3.0 U	**6.7 I**	**50**	1.9 U	2.3 U
CRHE-DPT0309-043.0-20140612	6/12/2014	09:18	Water	10	**280**	3.0 U	**20**	**560**	1.9 U	2.3 U
CRHE-DPT0309-048.0-20140612	6/12/2014	10:12	Water	1	**45.2**	0.30 U	**1.2**	**5.6**	0.19 U	0.23 U
CRHE-DPT0309-058.0-20140612	6/12/2014	10:31	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0310-033.0-20140612	6/12/2014	11:08	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0310-038.0-20140612	6/12/2014	11:26	Water	1	**0.46 I**	0.30 U	**0.42 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0310-043.0-20140612	6/12/2014	11:46	Water	1	**1.4**	0.30 U	**0.98 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0310-048.0-20140612	6/12/2014	12:06	Water	1	**0.86 I**	0.30 U	**0.63 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0310-058.0-20140612	6/12/2014	12:25	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0311-033.0-20140612	6/12/2014	14:01	Water	10	**770**	3.0 U	**19**	**280**	1.9 U	2.3 U
CRHE-DPT0311-038.0-20140612	6/12/2014	14:25	Water	20	**1300**	6.0 U	**87**	**3300**	3.8 U	4.6 U
CRHE-DPT0311-043.0-20140612	6/12/2014	14:49	Water	50	**710**	15 U	**120**	**4400**	9.5 U	12 U
CRHE-DPT0311-048.0-20140613	6/13/2014	7:11	Water	20	**490**	6.0 U	**71**	**1900**	**51**	4.6 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0311-058.0-20140613	6/13/2014	7:32	Water	1	**1.8**	0.30 U	**0.31** I	**12.9**	**0.24** I	0.23 U
CRHE-DPT0312-033.0-20140613	6/13/2014	8:11	Water	1	**145**	0.30 U	**1.8**	**11.6**	0.19 U	0.23 U
CRHE-DPT0312-038.0-20140613	6/13/2014	8:28	Water	1	**156**	0.30 U	**2.2**	**26.4**	0.19 U	0.23 U
CRHE-DPT0312-043.0-20140613	6/13/2014	8:48	Water	10	**270**	3.0 U	2.9 U	**32**	1.9 U	2.3 U
CRHE-DPT0312-048.0-20140613	6/13/2014	9:11	Water	10	**100**	3.0 U	2.9 U	**13**	1.9 U	2.3 U
CRHE-DPT0312-058.0-20140613	6/13/2014	9:31	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0313-033.0-20140613	6/13/2014	16:14	Water	1	**12.9**	0.30 U	0.29 U	**0.83** I	0.19 U	0.23 U
CRHE-DPT0313-038.0-20140613	6/13/2014	16:31	Water	1	**19.6**	0.30 U	**0.29 I**	**1.6**	0.19 U	0.23 U
CRHE-DPT0313-043.0-20140613	6/13/2014	16:48	Water	1	**9.1**	0.30 U	0.29 U	**1.5**	0.19 U	0.23 U
CRHE-DPT0313-048.0-20140613	6/13/2014	17:05	Water	1	**27.4**	0.30 U	**3.4**	**180**	**0.20 I**	0.23 U

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW193876-20140530	5/30/2014	16:22	Water	10	**28**	3.0 U	**3.2 I**	**140**	1.9 U	2.3 U
CRHE-IDW195127-20140602	6/2/2014	15:58	Water	10	2.6 U	3.0 U	2.9 U	**5.8 I**	1.9 U	2.3 U
CRHE-IDW195128-20140603	6/3/2014	16:16	Water	10	**3.7 I**	3.0 U	2.9 U	**2.4 I**	1.9 U	2.3 U
CRHE-IDW195129-20140605	6/5/2014	12:13	Water	10	**30**	3.0 U	**3.4 I**	**140**	1.9 U	2.3 U
CRHE-IDW195130-20140609	6/9/2014	13:55	Water	10	**34**	3.0 U	2.9 U	**190**	**50**	2.3 U
CRHE-IDW197034-20140610	6/10/2014	16:40	Water	10	**6.5 I**	3.0 U	2.9 U	**27**	1.9 U	2.3 U
CRHE-IDW197035-20140613	6/13/2014	10:06	Water	10	**19**	3.0 U	2.9 U	**72**	1.9 U	2.3 U

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Method Blank Summary

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Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Method Blank 05/28/14	5/28/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 05/29/14	5/29/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 05/30/14	5/30/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/02/14	6/2/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/03/14	6/3/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/04/14	6/4/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/05/14	6/5/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/06/14	6/6/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/09/14	6/9/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/10/14	6/10/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/11/14	6/11/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/12/14	6/12/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank 06/13/14	6/13/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Mobile Laboratory Services

6821 SW Archer Road
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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

CHAIN-OF-CUSTODY RECORD

1/2

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE KSC, FL	
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 30528/4
DPT0268-033.0	5/28/14	0901			5/28/14	1039		GW	2	✓	01A,B
-038.0		0921				1039		GW	2	✓	02A,B
-043.0		0939				1039		GW	2	✓	03A,B
-048.0		0956				1039		GW	2	✓	04A,B
-058.0		1017				1039		GW	2	✓	05A,B
DPT0269-038.0		1057				1211		GW	2	✓	06A,B
-043.0		1108				1211		GW	2	✓	07A,B
-048.0		1122				1211		GW	2	✓	08A,B
-058.0		1141				1211		GW	2	✓	09A,B
DPT0270-038.0		1256				1444		GW	2	✓	10A,B
043.0		1345				1444		GW	2	✓	11A,B
048.0		1405				1444		GW	2	✓	12A,B
058.0		1427				1444		GW	2	✓	13A,B
DPT0271-038.0		1457				1617		GW	2	✓	14A,B
-043.0		1509				1617		GW	2	✓	15A,B

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				CRHE - -20140528
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
		[signature]	5/28/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

Mobile Laboratory Services

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CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS																				
Geosyntec	CRHE KSC, FL																				
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)														
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	8260					PRESERVATION C Chilled H HCL Ot Other (see Remarks)	COMMENT / SAMPLE PRE FIX
																3052814	
APT0271-048.0	5/28/14	1528			5/28/14	1617		GW	2	✓							016A, B
-058.0	↓	1549			↓	1617		GW	2	✓							17A, B
APT0272-035.0		1623				1810		GW	2	✓							18A B
-043.0		1642				1810		GW	2	✓							19A, B
-048.0		1701				1810		GW	2	✓							20A, B
-058.0		1745				1810		GW	2	✓							21A, B

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			5/28/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

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MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRTE KSC, FL
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 305291 4
DPT 0273 - 038.0	5/25/14	0729			5/25/14	0850		GW	2	✓	01 A,B
- 043.0		0748				0850		GW	2	✓	02 A,B
- 048.0		0809				0850		GW	2	✓	03 A,B
- 058.0		0828				0850		GW	2	✓	04 A,B
DPT 0277 - 048.0		0906				1025		GW	2	✓	05 A,B
DPT 0274 - 033.0		0944				1025		GW	2	✓	06 A,B
- 038.0		1002				1025		GW	2	✓	07 A,B
- 043.0		1022				1140		GW	2	✓	08 A,B
- 048.0		1042				1140		GW	2	✓	09 A,B
- 058.0		1132				1140		GW	2	✓	10 A,B
DPT 0275 - 038.0		~~1330~~	1235			1330		GW	2	✓	11 A,B
DPT 0275 - 043.0		1302				1330		GW	2	✓	12 A,B
- 048.0		1320				1330		GW	2	✓	13 A,B
- 058.0		1342				1434		GW	2	✓	14 A,B
DPT 0276 - 033.0		1415				1434		GW	2	✓	15 A,B

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		CRTE - 20404052
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BHR	Date / Time 5/25/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRTE KSC, FL
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 3052914
DPT 0276 - 038.0	5/29/14	1432			5/29/14	1522		GW	2	✓	16 A,B
- 043.0	"	1453			"	1522		GW	2	✓	17 A,B
- 048.0	"	1512			"	1522		GW	2	✓	18 A,B
- 058.0	"	1540			"	1600		GW	2	✓	19 A,B

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature) RSD JR	Date / Time 5/29/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE, KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	COMMENT / SAMPLE PRE FIX 30530I4
DPT0277-038.0	5/30/14	0729			5/30/14	0850		GW	2	✓	01A,B
-043.0		0746				0850		GW	2	✓	02A,B
-048.0		0805				0850		GW	2	✓	03A,B
-053.0		0825				0850		GW	2	✓	04A,B
DPT0278-028.0		0859				1020		GW	2	✓	05A,B
-033.0		0915				1020		GW	2	✓	06A,B
-038.0		0933				1020		GW	2	✓	07A,B
-043.0		0949				1020		GW	2	✓	08A,B
-048.0		1007				1020		GW	2	✓	09A,B
DPT0279-028.0		1038				1155		GW	2	✓	10A,B
-033.0		1121				1155		GW	2	✓	11A,B
-038.0		1138				1155		GW	2	✓	12A,B
-043.0		1157				1216		GW	2	✓	13A,B
-048.0		1346				1400		GW	2	✓	14A,B
DPT0280-023.0		1422				1454		GW	2	✓	15A,B

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)		Received by: (Signature)	Date / Time 5/30/14

Remarks and Observations
CRTE - 20140530

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # 183

CLIENT NAME	PROJECT NAME & ADDRESS																	
Geosyntec	CRHE KSC, FL																	
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)											
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	8260				PRESERVATION C Chilled H HCL Ot Other (see Remarks) 3053014 COMMENT / SAMPLE PRE FIX			
DPT0280-028.0	5/30/14	1439			5/30/14	1454		GW	2	✓					16A,B			
-033.0		1537				1611		GW	2	✓					17A,B			
-038.0		1558				1611		GW	2	✓					18A,B			
-043.0		1616				1700		GW	2	✓					19A,B			
-048.0		1635				1700		GW	2	✓					20A,B			
IDW193876		1622				1700		GW	2	✓					21A,B			

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 5/30/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSK, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	COMMENT / SAMPLE PRE FIX (30602l4)
DPT0281 - 028.0	6/2/14	0730			6/2/14	0857		GW	2	✓	01A,B
-033.0		0747				0857		GW	2	✓	02A,B
-038.0		0832				0857		GW	2	✓	03A,B
-043.0		0850				0857		GW	2	✓	04A,B
-048.0		0909				1030		GW	2	✓	05A,B
DPT0282 - 023.0		0939				1030		GW	2	✓	06A,B
-028.0		0954				1030		GW	2	✓	07A,B
-033.0		1009				1030		GW	2	✓	08A,B
-038.0		1025				1154		GW	2	✓	09A,B
-043.0		1041				1154		GW	2	✓	10A,B
-048.0		1117				1154		GW	2	✓	11A,B
-058.0		1137				1154		GW	2	✓	12A,B
DPT0283 - 028.0		1236				1335		GW	2	✓	13A,B
-033.0		1253				1335		GW	2	✓	14A,B
-038.0		1328	1309			1335		GW	2	✓	15A,B

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)		Received by: (Signature) BM	Date / Time 6/2/14

Remarks and Observations

CRHE - -20140602

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS inc
Mobile Laboratory Services

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS																		
Geosyntec	CRHE KSC, FL																		
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)												
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	8260				COMMENT / SAMPLE PRE FIX				
DPT0283-043.0	6/2/14	1328			6/2/14	1335		GW	2	✓					16A,B				
-048.0		1349				1453		GW	2	✓					17A,B				
DPT0284-028.0		1425				1453		GW	2	✓					18A,B				
-033.0		1439				1453		GW	2	✓					19A,B				
-038.0		1457				1547		GW	2	✓					20A,B				
-043.0		1546				1645		GW	2	✓					21A,B				
-048.0		1609				1645		GW	2	✓					22A,B				
-058.0		1633				1645		GW	2	✓					23A,B				
IDW 195127		1558				1645		IDW	2	✓					24A,B				

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

3060214

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BM	Date / Time 6/2/14

Remarks and Observations
CRHE - -20140602

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

1/2

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRHE KSC, FL
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 3060314
DPT 0285-033.0	6/3/14	0733			6/3/14	0852		GW	2	✓	01A,B
-038.0		0759				0852		GW	2	✓	02A,B
-043.0		0817				0852		GW	2	✓	03A,B
-048.0		0835				0852		GW	2	✓	04A,B
-058.0		0845				1030		GW	2	✓	05A,B
DPT 0286-028.0		0932				1030		GW	2	✓	06A,B
-033.0		0948				1030		GW	2	✓	07A,B
-038.0		1029				1155		GW	2	✓	08A,B
-043.0		1047				1155		GW	2	✓	09A,B
-048.0		1106				1155		GW	2	✓	10A,B
-058.0		1134				1155		GW	2	✓	11A,B
DPT 0287-028.0		1246				1406		GW	2	✓	12A,B
-033.0		1304				1406		GW	2	✓	13A,B
-038.0		1325				1406		GW	2	✓	14A,B
-043.0	↓	1345			↓	1406		GW	2	✓	15A,B

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BH	Date / Time 6/3/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # KB 3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CKHE KSC, FL
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 3060314
DPT 0288 - 028.0		1443				1540		GW	2	✓	16A, B
- 033.0		1501				1540		GW	2	✓	17 A, B
- 038.0		1549				1644		GW	2	✓	18 A, B
- 043.0		1607				1644		GW	2	✓	19A, B
IDW - 195128		1616				1644		IDW	2	✓	20 A, B
DPT 0289 - 010.0		1659				1721		GW	2	✓	21A, B
- 018.0		1712				1721		GW	2	✓	22A, B

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time: 6/3/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 30604/14
DPT 0289 - 023.0	6/4/14	0728			6/4/14	0836		GW	2	✓	01 A, B
- 028.0		0743				0836		GW	2	✓	02 A, B
- 033.0		0800				0836		GW	2	✓	03 A, B
- 038.0		0818				0836		GW	2	✓	04 A, B
- 043.0		0835				1013		GW	2	✓	05 A, B
- 048.0		0854				1013		GW	2	✓	06 A, B
- 058.0		0943				1013		GW	2	✓	07 A, B
DPT 0290 - 033.0		1045				1226		GW	2	✓	08 A, B
- 038.0		1104				1226		GW	2	✓	09 A, B
- 043.0		1123				1226		GW	2	✓	10 A, B
- 048.0		1143				1226		GW	2	✓	11 A, B
- 058.0		1204				1226		GW	2	✓	12 A, B
DPT 0291 - 033.0		1404				1456		GW	2	✓	13 A, B
- 038.0		1428				1456		GW	2	✓	14 A, B
- 043.0		1441				1456		GW	2	✓	15 A, B

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations** CRHE
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BMJ	Date / Time 6/4/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

2/2

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS																		
Geosyntec	CRHE KSC, FL																		
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)												
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260					PRESERVATION: C Chilled, H HCL, Ot Other (see Remarks)				COMMENT / SAMPLE PRE FIX
DPT0291-048.0	6/4/14	1502			6/4/14	1610		GW	2	V									16A,B
-058.0		1558				1640		GW	2	V									17A,B
DPT0292-033.0		1647				1736		GW	2	V									18A,B
-038.0		1705				1736		GW	2	V									19A,B
-043.0		1725				1736		GW	2	V									20A,B

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
				CRHE
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BH	Date / Time 6/4/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 4260

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

30605I4

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS						COMMENT / SAMPLE PRE FIX
DPT0292-048.0	6/5/14	0806			6/5/14	0842		GW	2	✓					01A,B
-058.0		0826				0842		GW	2	✓					02A,B
DPT0293-033.0		0912				1048		GW	2	✓					03A,B
-038.0		0928				1048		GW	2	✓					04A,B
-043.0		0946				1048		GW	2	✓					05A,B
-048.0		1002				1048		GW	2	✓					06A,B
-058.0		1102				1146		GW	2	✓					07A,B
IDW195129		1213				1437		IDW	2	✓					08A,B
DPT0294-018.0		1407				1437		GW	2	✓					09A,B
-023.0		1429				1437		GW	2	✓					10A,B
-028.0		1457				1602		GW	2	✓					11A,B
-033.0		1553				1602		GW	2	✓					12A,B
-038.0		1627				1703		GW	2	✓					13A,B
-043.0		1656				1703		GW	2	✓					14A,B

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)		Received by: (Signature)	6/5/14

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/1

MOBILE UNIT # KB3

KB LABS Mobile Laboratory Services

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6701 Conference Drive
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CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 4260

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	4260				COMMENT / SAMPLE PRE FIX 30606l4
DPT0295-018.0	6/6/14	0945			6/6/14	1024		GW	2	✓				01A,B
-023.0		1011				1024		GW	2	✓				02A,B
-028.0		1040				1209		GW	2	✓				03A,B
-033.0		1157				1209		GW	2	✓				04A,B
-038.0		1315				1405		GW	2	✓				05A,B
-043.0		1354				1405		GW	2	✓				06A,B
DPT0296-033.0		1535				1619		GW	2	✓				07A,B
-038.0		1555				1619		GW	2	✓				08A,B
-043.0		1614				1619		GW	2	✓				09A,B
-048.0		1637				1704		GW	2	✓				10A,B

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations** CRHE - 20140606
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/6/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	COMMENT / SAMPLE PRE FIX (30600814)
DPT0296-058.0	6/5/14	0800			6/5/14	0820		GW	2	✓	01A,B
DPT0297-033.0		0836				0912		GW	2	✓	02A,B
-038.0		0853				0912		GW	2	✓	03A,B
-043.0		1003				1058		GW	2	✓	04A,B
-048.0		1022				1058		GW	2	✓	05A,B
DPT0298-033.0		1114				1224		GW	2	✓	06A,B
-038.0		1133				1224		GW	2	✓	07A,B
-043.0		1152				1224		GW	2	✓	08A,B
-048.0		1212				1224		GW	2	✓	09A,B
-058.0		1336				1402		GW	2	✓	10A,B
IDW195130		1355				1402		IDW	2	✓	11A,B
DPT0299-033.0		1441				1531		GW	2	✓	12A,B
-038.0		1459				1531		GW	2	✓	13,A,B
-043.0		1517				1531		GW	2	✓	14A,B
-048.0	—	~~1627~~	1400		—	1627		GW	2	✓	15A,B

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)		Received by: (Signature) BNE	

Remarks and Observations
CRHE - 20140609

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260					COMMENT / SAMPLE PRE FIX
DPT0300-028.0	6/9/14	1641			6/9/14	1727		GW	2	✓					16A,B
-043.0	"	1659			"	1727		GW	2	✓					17A,B
-048.0	"	1718			"	1727		GW	2	✓					15A,B

	Date / Time	Received by: (Signature)	Date / Time
Precleaned Containers Relinquished by: (Signature)			
Relinquished by: (Signature)		Received by: (Signature)	Date / Time: 6/9/14

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260				30610/14	COMMENT / SAMPLE PRE FIX
DPT 0300 - 058.0	6/10/14	0738			6/10/14	0833		GW	2	✓					01A, B
DPT 0301 - 038.0		0820				0833		GW	2	✓					02A,B
- 043.0		0841				0942		GW	2	✓					03A,B
- 048.0		0904				0942		GW	2	✓					04A,B
- 058.0		0926				0942		GW	2	✓					05A,B
DPT 0302 - 043.0		1003				1045		GW	2	✓					06A,B
- 048.0		1155				1213		GW	2	✓					07A,B
DPT 0303 - 038.0		1315				1410		GW	2	✓					08A,B
- 043.0		1336				1410		GW	2	✓					09A,B
- 048.0		1356				1410		GW	2	✓					10A,B
DPT 0304 - 033.0		1438				1528		GW	2	✓					11A,B
- 038.0		1457				1528		GW	2	✓					12A,B
- 043.0		1516				1528		GW	2	✓					13A,B
- 048.0		1536				1620		GW	2	✓					14A,B
- 058.0		1557				1620		GW	2	✓					15A,B

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations** CRHE - - 20140610
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* BN JE	Date / Time 6/10/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260					COMMENT / SAMPLE PRE FIX
IDW197034	6/10/14	1640			6/10/14	1740		GW	2	✓					16A, B
DPT 0305-038.0	"	1710			"	1740		GW	2	✓					17A, B
-0430	"	1726			"	1740		GW	2	✓					18A, B

	Date / Time		Date / Time
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*	
Relinquished by: *(Signature)*		Received by: *(Signature)* BG	6/10/14

Remarks and Observations
CRHE - - 20140610

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/1

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MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRHE KSC, FL
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 30611 14
DPT0306-033.0	6/11/14	0819			6/11/14	0906		GW	2	✓	01A,B
-038.0		0837				0906		GW	2	✓	02A,B
-043.0		0853				0906		GW	2	✓	03A,B
DPT0307-029.0		0922				1007		GW	2	✓	04A,B
-033.0		0937				1007		GW	2	✓	05A,B
-038.0		0955				1007		GW	2	✓	06A,B
-043.0		1012				1055		GW	2	✓	07A,B
-048.0		1032				1055		GW	2	✓	08A,B
-058.0		1130				1154		GW	2	✓	09A,B
DPT0308-028.0		1514				1620		GW	2	✓	10A,B
-033.0		1528				1620		GW	2	✓	11A,B
-038.0		1545				1620		GW	2	✓	12A,B
-043.0		1737				1829		GW	2	✓	13A,B
-048.0		1754				1829		GW	2	✓	14A,B
-058.0		1814				1829		GW	2	✓	15A,B

	Date / Time		Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		CRHE - - 20140611
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/11/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/1

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260					COMMENT / SAMPLE PRE FIX
															3061214
DPT 0309 - 033.0	6/12/14	0845			6/12/14	0935		GW	2	✓					01 A,B
- 038.0		0902				0935		GW	2	✓					02 A,B
- 043.0		0918				0935		GW	2	✓					03 A,B
- 048.0		1012				1047		GW	2	✓					04 A,B
- 053.0		1031				1047		GW	2	✓					05 A,B
DPT 0310 - 033.0		1108				1200		GW	2	✓					06 A,B
- 038.0		1126				1200		GW	2	✓					07 A,B
- 043.0		1146				1200		GW	2	✓					08 A,B
- 048.0		1206				1244		GW	2	✓					09 A,B
- 053.0		1225				1244		GW	2	✓					10 A,B
DPT 0311 - 033.0		1401				1506		GW	2	✓					11 A,B
- 038.0		1425				1506		GW	2	✓					12 A,B
- 043.0		1445				1506		GW	2	✓					13 A,B

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)		Received by: (Signature)	Date / Time 6/12/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE, KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	COMMENT / SAMPLE PRE FIX
DPT 0311-048.0	6/13/14	0711		✓	6/13/14	0745		GW	2	✓	
-058.0		0732									
DPT 0312-033.0		0811				0900					
-038.0		0828									
-043.0		0848									
-048.0		0911				1015					
058.0		0931									
IDW 197035		1006									
DPT 0313 -033.0		1614				1710					
-038.0		1631									
-043.0		1648									
048.0		1705									

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/13/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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Email: info@kbmobilelabs.com

August 27, 2014

Jill Johnson
Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project # 14-116

Dear Ms. Johnson:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from August 18 to 25, 2014. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 472-5830.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

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PROJECT NARRATIVE

Project Scope

From August 18 to 25, 2014, a total of 114 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1, 1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene. Two additional IDW samples from WILC were also ran during this project and reported.

NELAP Certification

KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

FDEP Data Qualifiers:

U Analyte was not detected or below the laboratory MDL.
I Result is below the PQL but larger than the laboratory MDL.
L Result exceeded Upper Calibration Range.

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Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as ± 3 times the standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Results reported in the Preliminary Data analyzed on 8/23/14 seemed to be biased slightly high based on ending CCS standards. A new curve was ran on the morning of 8/24/14 and the 8/23 data was requanted based on the new curve. This data is reported in the Final data report. All QC passed based on the new curve.

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KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-116
On-site Dates: 8/18/14-8/25/14	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK/TUNE	08/18/14	97	109	96	94	Pass	Pass	Pass	Pass
CCS 20	08/18/14	96	99	93	92	Pass	Pass	Pass	Pass
LCS 20	08/18/14	97	103	92	90	Pass	Pass	Pass	Pass
CCS 20	08/18/14	99	102	95	91	Pass	Pass	Pass	Pass
LCS 20	08/18/14	97	112	94	90	Pass	Pass	Pass	Pass
BLANK	08/18/14	96	100	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0314-038.0'	08/18/14	102	104	93	88	Pass	Pass	Pass	Pass
CRHE-DPT0314-043.0'	08/18/14	98	105	94	83	Pass	Pass	Pass	Pass
CRHE-DPT0314-048.0'	08/18/14	96	103	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0314-048.0' MS	08/18/14	101	107	95	87	Pass	Pass	Pass	Pass
CRHE-DPT0314-048.0' MSD	08/18/14	92	108	95	87	Pass	Pass	Pass	Pass
BLANK	08/18/14	99	105	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0314-058.0'	08/18/14	96	105	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0315-038.0' 1:10	08/18/14	103	112	97	87	Pass	Pass	Pass	Pass
CRHE-DPT0315-043.0' 1:20	08/18/14	115	125	109	96	Pass	Pass	Pass	Pass
WILC-IDW188850 1:10	08/18/14	99	112	97	83	Pass	Pass	Pass	Pass
WILC-IDW195149 1:10	08/18/14	98	114	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0315-048.0'	08/18/14	102	121	92	82	Pass	Pass	Pass	Pass
CRHE-DPT0315-058.0'	08/18/14	95	114	92	86	Pass	Pass	Pass	Pass
CRHE-DPT0316-038.0'	08/18/14	101	118	95	84	Pass	Pass	Pass	Pass
CRHE-DPT0316-043.0'	08/18/14	103	117	94	89	Pass	Pass	Pass	Pass
CRHE-DPT0316-048.0'	08/18/14	97	113	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0316-058.0'	08/18/14	101	115	95	90	Pass	Pass	Pass	Pass
CRHE-DPT0317-033.0'	08/18/14	99	117	96	89	Pass	Pass	Pass	Pass
CRHE-DPT0317-038.0'	08/18/14	98	115	91	82	Pass	Pass	Pass	Pass
CCS 20	08/18/14	97	115	94	89	Pass	Pass	Pass	Pass
BLANK/TUNE	08/19/14	99	119	95	94	Pass	Pass	Pass	Pass
CCS 20	08/19/14	99	117	93	91	Pass	Pass	Pass	Pass
LCS 20	08/19/14	95	116	96	86	Pass	Pass	Pass	Pass
BLANK	08/19/14	97	120	98	90	Pass	Pass	Pass	Pass
CRHE-DPT0317-043.0' 1:50	08/19/14	103	125	90	81	Pass	Pass	Pass	Pass
CRHE-DPT0317-048.0'	08/19/14	97	116	90	81	Pass	Pass	Pass	Pass
CRHE-DPT0317-058.0'	08/19/14	96	120	90	82	Pass	Pass	Pass	Pass
CRHE-DPT0317-033.0' 1:10	08/19/14	98	111	91	86	Pass	Pass	Pass	Pass
CRHE-DPT0317-038.0' 1:100	08/19/14	97	110	95	83	Pass	Pass	Pass	Pass
CRHE-DPT0317-058.0' MS	08/19/14	100	119	95	82	Pass	Pass	Pass	Pass
CRHE-DPT0317-058.0' MSD	08/19/14	99	109	92	84	Pass	Pass	Pass	Pass
BLANK	08/19/14	100	122	90	85	Pass	Pass	Pass	Pass
CRHE-DPT0318-033.0' 1:50	08/19/14	103	118	93	85	Pass	Pass	Pass	Pass
CRHE-DPT0318-038.0' 1:10	08/19/14	102	111	96	88	Pass	Pass	Pass	Pass
CRHE-DPT0319-038.0'	08/19/14	104	112	93	88	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-116
On-site Dates: 8/18/14-8/25/14	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0319-043.0' 1:50	08/19/14	105	128	84	80	Pass	Pass	Pass	Pass
CRHE-DPT0319-048.0' 1:100	08/19/14	100	126	93	88	Pass	Pass	Pass	Pass
CRHE-DPT0319-058.0'	08/19/14	103	118	94	85	Pass	Pass	Pass	Pass
CRHE-DPT0320-038.0' 1:20	08/19/14	100	123	93	84	Pass	Pass	Pass	Pass
CRHE-DPT0320-043.0' 1:20	08/19/14	97	117	90	81	Pass	Pass	Pass	Pass
CRHE-DPT0320-048.0' 1:20	08/19/14	107	126	95	83	Pass	Pass	Pass	Pass
CRHE-DPT0320-058.0'	08/19/14	100	122	87	83	Pass	Pass	Pass	Pass
CRHE-DPT0321-038.0'	08/19/14	104	127	97	85	Pass	Pass	Pass	Pass
CRHE-DPT0321-043.0' 1:20	08/19/14	106	120	93	81	Pass	Pass	Pass	Pass
CRHE-DPT0321-048.0' 1:10	08/19/14	102	123	96	84	Pass	Pass	Pass	Pass
CRHE-DPT0321-058.0'	08/19/14	100	126	94	82	Pass	Pass	Pass	Pass
CCS 20	08/19/14	99	123	95	82	Pass	Pass	Pass	Pass
BLANK/TUNE	08/20/14	105	122	95	91	Pass	Pass	Pass	Pass
CCS 20	08/20/14	107	129	92	84	Pass	Pass	Pass	Pass
LCS 20	08/20/14	105	120	94	86	Pass	Pass	Pass	Pass
BLANK	08/20/14	98	122	95	86	Pass	Pass	Pass	Pass
CRHE-DPT0322-038.0'	08/20/14	103	125	90	84	Pass	Pass	Pass	Pass
CRHE-DPT0322-043.0' 1:20	08/20/14	101	120	86	84	Pass	Pass	Pass	Pass
CRHE-DPT0322-048.0' 1:50	08/20/14	109	128	82	85	Pass	Pass	Pass	Pass
CRHE-DPT0322-058.0'	08/20/14	109	128	84	77	Pass	Pass	Pass	Pass
CRHE-DPT0322-038.0' MS	08/20/14	113	117	84	77	Pass	Pass	Pass	Pass
CRHE-DPT0322-038.0' MSD	08/20/14	108	125	78	80	Pass	Pass	Pass	Pass
BLANK	08/20/14	106	123	88	82	Pass	Pass	Pass	Pass
CRHE-DPT0323-038.0'	08/20/14	113	125	81	87	Pass	Pass	Pass	Pass
CRHE-DPT0323-043.0'	08/20/14	104	115	89	71	Pass	Pass	Pass	Pass
CRHE-DPT0323-048.0'	08/20/14	112	128	84	83	Pass	Pass	Pass	Pass
CRHE-DPT0323-058.0'	08/20/14	107	125	86	85	Pass	Pass	Pass	Pass
CRHE-DPT0324-038.0'	08/20/14	112	126	84	80	Pass	Pass	Pass	Pass
CRHE-DPT0324-043.0' 1:2	08/20/14	114	124	84	81	Pass	Pass	Pass	Pass
CRHE-DPT0324-048.0' 1:50	08/20/14	116	130	84	84	Pass	Pass	Pass	Pass
CRHE-DPT0324-058.0'	08/20/14	114	121	84	84	Pass	Pass	Pass	Pass
CRHE-DPT0325-038.0'	08/20/14	112	123	84	88	Pass	Pass	Pass	Pass
CRHE-DPT0325-043.0' 1:10	08/20/14	113	123	86	85	Pass	Pass	Pass	Pass
CRHE-DPT0325-048.0 1:20	08/20/14	109	118	81	90	Pass	Pass	Pass	Pass
CRHE-DPT0326-038.0'	08/20/14	114	130	84	81	Pass	Pass	Pass	Pass
CRHE-DPT0326-043.0'	08/20/14	114	130	82	83	Pass	Pass	Pass	Pass
CRHE-DPT0326-048.0' 1:10	08/20/14	112	121	84	82	Pass	Pass	Pass	Pass
CRHE-DPT0326-058.0'	08/20/14	109	122	84	91	Pass	Pass	Pass	Pass
CRHE-DPT0323-058.0' MS	08/20/14	108	127	82	79	Pass	Pass	Pass	Pass
CRHE-DPT0323-058.0' MSD	08/20/14	115	127	84	77	Pass	Pass	Pass	Pass
CCS 20	08/20/14	108	126	86	82	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-116
On-site Dates: 8/18/14-8/25/14	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK/TUNE	08/21/14	114	134	90	87	Pass	Pass	Pass	Pass
CCS 20	08/21/14	113	132	87	86	Pass	Pass	Pass	Pass
LCS 20	08/21/14	108	133	86	83	Pass	Pass	Pass	Pass
BLANK	08/21/14	98	105	101	102	Pass	Pass	Pass	Pass
VSTD 1	08/21/14	98	108	100	104	Pass	Pass	Pass	Pass
VSTD 5	08/21/14	97	100	102	104	Pass	Pass	Pass	Pass
VSTD 10	08/21/14	101	102	97	99	Pass	Pass	Pass	Pass
VSTD 20	08/21/14	98	104	99	100	Pass	Pass	Pass	Pass
REF 20	08/21/14	96	104	101	102	Pass	Pass	Pass	Pass
VSTD 50	08/21/14	98	102	99	101	Pass	Pass	Pass	Pass
VSTD 100	08/21/14	95	95	102	102	Pass	Pass	Pass	Pass
VSTD 200	08/21/14	112	92	102	96	Pass	Pass	Pass	Pass
BLANK	08/21/14	93	101	101	103	Pass	Pass	Pass	Pass
VSTD 1	08/21/14	97	105	99	98	Pass	Pass	Pass	Pass
CRHE-DPT0327-038.0'	08/21/14	99	108	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0327-043.0' 1:50	08/21/14	99	105	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0327-048.0' 1:50	08/21/14	97	102	103	102	Pass	Pass	Pass	Pass
CRHE-DPT0327-053.0' 1:5	08/21/14	100	108	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0327-058.0'	08/21/14	100	103	97	104	Pass	Pass	Pass	Pass
CRHE-DPT0328-038.0' 1:2	08/21/14	101	106	98	102	Pass	Pass	Pass	Pass
CRHE-DPT0328-043.0' 1:5	08/21/14	101	109	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0328-048.0'	08/21/14	102	107	98	103	Pass	Pass	Pass	Pass
CRHE-DPT0328-053.0' 1:10	08/21/14	100	99	98	106	Pass	Pass	Pass	Pass
CRHE-DPT0328-058.0'	08/21/14	102	107	96	100	Pass	Pass	Pass	Pass
CRHE-DPT0329-038.0' 1:50	08/21/14	102	102	96	103	Pass	Pass	Pass	Pass
CRHE-DPT0329-043.0' 1:50	08/21/14	101	106	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0329-048.0' 1:10	08/21/14	101	106	99	105	Pass	Pass	Pass	Pass
CRHE-DPT0329-053.0' 1:2	08/21/14	104	98	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0329-058.0'	08/21/14	102	105	100	107	Pass	Pass	Pass	Pass
CRHE-DPT0330-038.0'	08/21/14	102	111	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0330-043.0' 1:10	08/21/14	101	101	98	104	Pass	Pass	Pass	Pass
CRHE-DPT0330-048.0' 1:50	08/21/14	99	105	99	108	Pass	Pass	Pass	Pass
CRHE-DPT0330-053.0' 1:10	08/21/14	103	104	94	102	Pass	Pass	Pass	Pass
CRHE-DPT0330-058.0'	08/21/14	106	104	94	105	Pass	Pass	Pass	Pass
CRHE-DPT0327-038.0' MS	08/21/14	100	106	101	106	Pass	Pass	Pass	Pass
CRHE-DPT0327-038.0' MSD	08/21/14	102	103	99	104	Pass	Pass	Pass	Pass
CCS 20	08/21/14	95	93	104	103	Pass	Pass	Pass	Pass
BLANK/TUNE	08/22/14	109	107	91	102	Pass	Pass	Pass	Pass
CCS 20	08/22/14	107	107	94	100	Pass	Pass	Pass	Pass
LCS 20	08/22/14	105	104	93	101	Pass	Pass	Pass	Pass
BLANK	08/22/14	106	105	93	102	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-116
On-site Dates: 8/18/14-8/25/14	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0331-033.0' 1:50	08/22/14	113	116	92	102	Pass	Pass	Pass	Pass
CRHE-DPT0331-038.0' 1:50	08/22/14	110	107	93	104	Pass	Pass	Pass	Pass
CRHE-DPT0331-043.0' 1:20	08/22/14	108	105	91	99	Pass	Pass	Pass	Pass
CRHE-DPT0331-048.0' 1:2	08/22/14	104	109	92	93	Pass	Pass	Pass	Pass
CRHE-DPT0331-058.0'	08/22/14	105	104	89	98	Pass	Pass	Pass	Pass
CRHE-DPT0331-058.0' MS	08/22/14	107	106	92	95	Pass	Pass	Pass	Pass
CRHE-DPT0331-058.0' MSD	08/22/14	108	107	92	101	Pass	Pass	Pass	Pass
BLANK	08/22/14	104	104	91	99	Pass	Pass	Pass	Pass
CRHE-DPT0332-033.0'	08/22/14	107	107	90	97	Pass	Pass	Pass	Pass
CRHE-DPT0332-038.0'	08/22/14	112	107	91	100	Pass	Pass	Pass	Pass
CRHE-DPT0332-043.0' 1:2	08/22/14	107	106	89	99	Pass	Pass	Pass	Pass
CRHE-DPT0332-048.0' 1:10	08/22/14	107	106	91	99	Pass	Pass	Pass	Pass
CRHE-DPT0332-058.0'	08/22/14	108	106	92	96	Pass	Pass	Pass	Pass
CRHE-DPT0333-028.0'	08/22/14	109	110	91	105	Pass	Pass	Pass	Pass
CRHE-DPT0333-038.0' 1:10	08/22/14	108	104	93	101	Pass	Pass	Pass	Pass
CRHE-DPT0333-043.0'	08/22/14	104	107	93	101	Pass	Pass	Pass	Pass
CRHE-DPT0333-048.0'	08/22/14	106	110	95	106	Pass	Pass	Pass	Pass
CRHE-DPT0333-058.0'	08/22/14	104	110	94	106	Pass	Pass	Pass	Pass
CRHE-DPT0318-043.0' 1:10	08/22/14	109	110	95	107	Pass	Pass	Pass	Pass
CCS 20	08/22/14	103	111	98	103	Pass	Pass	Pass	Pass
CCS 20	08/23/14	95	103	107	101	Pass	Pass	Pass	Pass
LCS 20	08/23/14	93	101	109	101	Pass	Pass	Pass	Pass
BLANK	08/23/14	94	99	109	101	Pass	Pass	Pass	Pass
CCS 20	08/23/14	99	110	105	101	Pass	Pass	Pass	Pass
LCS 20	08/23/14	94	109	104	100	Pass	Pass	Pass	Pass
CRHE-DPT0334-033.0'	08/23/14	94	99	110	106	Pass	Pass	Pass	Pass
CRHE-DPT0334-038.0'	08/23/14	94	101	110	106	Pass	Pass	Pass	Pass
CRHE-DPT0334-043.0' 1:10	08/23/14	93	98	110	105	Pass	Pass	Pass	Pass
CRHE-DPT0334-048.0' 1:10	08/23/14	92	99	110	109	Pass	Pass	Pass	Pass
CRHE-DPT0334-058.0'	08/23/14	93	100	111	107	Pass	Pass	Pass	Pass
CRHE-DPT0334-033.0' 1:20	08/23/14	92	98	110	107	Pass	Pass	Pass	Pass
CRHE-DPT0334-038.0' 1:20	08/23/14	94	103	110	106	Pass	Pass	Pass	Pass
CRHE-DPT0335-033.0' 1:10	08/23/14	92	102	111	108	Pass	Pass	Pass	Pass
CRHE-DPT0335-038.0'	08/23/14	90	94	109	106	Pass	Pass	Pass	Pass
CRHE-DPT0335-043.0'	08/23/14	92	95	112	104	Pass	Pass	Pass	Pass
CRHE-DPT0335-048.0'	08/23/14	92	98	110	105	Pass	Pass	Pass	Pass
CRHE-DPT0335-058.0'	08/23/14	93	103	112	104	Pass	Pass	Pass	Pass
CRHE-DPT0335-058.0'	08/23/14	94	104	110	105	Pass	Pass	Pass	Pass
CRHE-DPT0335-058.0'	08/23/14	92	99	110	106	Pass	Pass	Pass	Pass
CRHE-DPT0336-028.0' 1:500	08/23/14	94	102	109	109	Pass	Pass	Pass	Pass
CRHE-DPT0336-028.0' 1:20	08/23/14	94	103	112	108	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 14-116
On-site Dates: 8/18/14-8/25/14	**Client Project Manager**: Jill Johnson	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0336-033.0' 1:20	08/23/14	91	99	111	106	Pass	Pass	Pass	Pass
CRHE-DPT0336-038.0' 1:10	08/23/14	94	99	112	109	Pass	Pass	Pass	Pass
CRHE-DPT0336-043.0' 1:10	08/23/14	94	100	110	105	Pass	Pass	Pass	Pass
CRHE-DPT0336-048.0'	08/23/14	95	102	108	107	Pass	Pass	Pass	Pass
CRHE-DPT0336-058.0'	08/23/14	91	94	112	107	Pass	Pass	Pass	Pass
CRHE-DPT0337-033.0'	08/23/14	92	99	111	104	Pass	Pass	Pass	Pass
CRHE-DPT0334-038.0'	08/23/14	94	101	113	108	Pass	Pass	Pass	Pass
CCS 20	08/23/14	91	100	113	104	Pass	Pass	Pass	Pass
CCS 20	08/23/14	89	94	111	101	Pass	Pass	Pass	Pass
LCS 20	08/23/14	88	94	112	106	Pass	Pass	Pass	Pass
BLANK/TUNE	08/24/14	99	102	107	101	Pass	Pass	Pass	Pass
CCS 20	08/24/14	114	114	91	105	Pass	Pass	Pass	Pass
CCS 5	08/24/14	103	107	100	101	Pass	Pass	Pass	Pass
CCS 10	08/24/14	101	105	100	100	Pass	Pass	Pass	Pass
CCS 50	08/24/14	97	97	102	100	Pass	Pass	Pass	Pass
CCS 100	08/24/14	97	100	99	104	Pass	Pass	Pass	Pass
CCS 200	08/24/14	100	90	95	97	Pass	Pass	Pass	Pass
LCS 20	08/24/14	94	97	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0337-043.0'	08/24/14	98	100	101	100	Pass	Pass	Pass	Pass
CRHE-DPT0337-048.0'	08/24/14	96	97	103	103	Pass	Pass	Pass	Pass
CRHE-DPT0337-058.0'	08/24/14	101	107	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0338-028.0'	08/24/14	102	103	99	101	Pass	Pass	Pass	Pass
CRHE-DPT0338-033.0'	08/24/14	99	101	101	102	Pass	Pass	Pass	Pass
CRHE-DPT0338-038.0'	08/24/14	100	103	101	103	Pass	Pass	Pass	Pass
CRHE-DPT0339-028.0' 1:20	08/24/14	103	102	100	102	Pass	Pass	Pass	Pass
CRHE-DPT0339-033.0' 1:20	08/24/14	98	95	102	103	Pass	Pass	Pass	Pass
CRHE-DPT0339-038.0'	08/24/14	101	98	101	103	Pass	Pass	Pass	Pass
LCS 20	08/24/14	105	109	98	99	Pass	Pass	Pass	Pass
CRHE-DPT0338-038.0' MS	08/24/14	104	108	97	100	Pass	Pass	Pass	Pass
CRHE-DPT0338-038.0' MSD	08/24/14	100	106	100	98	Pass	Pass	Pass	Pass
LCS 20	08/24/14	101	106	98	98	Pass	Pass	Pass	Pass
CRHE-IDW190517 1:10	08/25/14	101	101	97	95	Pass	Pass	Pass	Pass
CCS 20	08/25/14	99	101	97	100	Pass	Pass	Pass	Pass
Comments:	Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.								

***Surrogate Compounds:**
S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-116
Onsite Dates: 8/18/14-8/25/14	**Client Project Manager:**Jill Johnson	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0314-048.0' **Date of Analysis:** 8/18/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	64	68	6	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	71	72	2	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	90	92	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	94	98	5	Pass	Pass	Pass
Trichloroethene	52	143	20	103	103	0	Pass	Pass	Pass
Tetrachloroethene	50	144	20	107	111	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0317-058.0' **Date of Analysis:** 8/19/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	79	68	14	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	79	74	7	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	97	91	7	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	103	100	3	Pass	Pass	Pass
Trichloroethene	52	143	20	111	101	10	Pass	Pass	Pass
Tetrachloroethene	50	144	20	122	118	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0322-038.0' **Date of Analysis:** 8/20/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	61	85	32	Pass	Pass	> RPDL
1,1-Dichloroethene	30	165	20	75	88	16	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	97	122	24	Pass	Pass	> RPDL
Cis-1,2-Dichloroethene	29	163	20	103	125	19	Pass	Pass	Pass
Trichloroethene	52	143	20	117	135	14	Pass	Pass	Pass
Tetrachloroethene	50	144	20	124	129	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0323-058.0' **Date of Analysis:** 8/20/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	93	94	2	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	116	121	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	121	121	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	124	126	1	Pass	Pass	Pass
Trichloroethene	52	143	20	127	129	1	Pass	Pass	Pass
Tetrachloroethene	50	144	20	132	138	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-116
Onsite Dates: 8/18/14-8/25/14	**Client Project Manager:**Jill Johnson	**Matrix**: Water

Samples: CRHE-DPT0327-038.0' **Date of Analysis:** 8/21/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	117	122	4	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	92	96	5	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	95	98	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	90	95	5	Pass	Pass	Pass
Trichloroethene	52	143	20	103	104	1	Pass	Pass	Pass
Tetrachloroethene	50	144	20	101	101	0	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0331-058.0' **Date of Analysis:** 8/22/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	122	106	14	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	100	100	0	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	100	101	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	105	107	2	Pass	Pass	Pass
Trichloroethene	52	143	20	110	111	1	Pass	Pass	Pass
Tetrachloroethene	50	144	20	93	94	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0335-058.0' **Date of Analysis:** 8/23/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	94	95	1	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	93	90	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	92	88	5	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	91	86	6	Pass	Pass	Pass
Trichloroethene	52	143	20	88	85	3	Pass	Pass	Pass
Tetrachloroethene	50	144	20	92	91	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0338-038.0' **Date of Analysis:** 8/24/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	100	111	10	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	95	109	14	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	98	110	11	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	98	107	9	Pass	Pass	Pass
Trichloroethene	52	143	20	96	104	9	Pass	Pass	Pass
Tetrachloroethene	50	144	20	91	106	15	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-116
Onsite Dates: 8/18/14-8/25/14	**Client Project Manager:**Jill Johnson	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 8/18/2014
LCS 2 8/18/2014
LCS 3 8/19/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	23	to	168	55	78	92	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	79	95	110	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	84	99	104	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	89	98	101	Pass	Pass	Pass
Trichloroethene	55	to	145	92	102	105	Pass	Pass	Pass
Tetrachloroethene	53	to	147	100	108	131	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:** 8/20/2014
LCS 5 8/21/2014
LCS 6 8/21/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	23	to	168	87	108	100	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	105	131	103	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	101	126	97	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	105	125	94	Pass	Pass	Pass
Trichloroethene	55	to	145	108	128	97	Pass	Pass	Pass
Tetrachloroethene	53	to	147	131	150	100	Pass	> UCL	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 **Date of Analysis:** 8/22/2014
LCS 8 8/23/2014
LCS 9 8/23/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	23	to	168	100	112	113	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	107	106	103	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	100	97	97	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	99	92	93	Pass	Pass	Pass
Trichloroethene	55	to	145	109	92	92	Pass	Pass	Pass
Tetrachloroethene	53	to	147	100	100	98	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Tuan Luu, Greg Lamb
Site: NASA KSC CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-116
Onsite Dates: 8/18/14-8/25/14	**Client Project Manager:**Jill Johnson	**Matrix**: Water

Samples: LCS 10 — **Date of Analysis:** 8/23/2014
LCS 11 — 8/24/2014
LCS 12 — 8/24/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS#11	LCS#12	LCS#10	LCS#11	LCS#12
Vinyl Chloride	23	to	168	114	135	138	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	104	142	124	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	95	121	116	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	87	107	112	Pass	Pass	Pass
Trichloroethene	55	to	145	92	108	108	Pass	Pass	Pass
Tetrachloroethene	53	to	147	103	116	108	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 13 — **Date of Analysis:** 8/23/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#13			LCS#13		
Vinyl Chloride	23	to	168	156			Pass		
1,1-Dichloroethene	39	to	161	127			Pass		
Trans-1,2-Dichloroethene	40	to	153	123			Pass		
Cis-1,2-Dichloroethene	51	to	143	113			Pass		
Trichloroethene	55	to	145	110			Pass		
Tetrachloroethene	53	to	147	111			Pass		

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Final Data Report

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KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0314-038.0-20140818	8/18/2014	09:50	Water	1	**63.5**	0.30 U	**3.3**	**31.2**	0.19 U	0.23 U
CRHE-DPT0314-043.0-20140818	8/18/2014	10:16	Water	1	**63.0**	0.30 U	**2.2**	**28.0**	0.19 U	0.23 U
CRHE-DPT0314-048.0-20140818	8/18/2014	10:50	Water	1	**0.45 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0314-058.0-20140818	8/18/2014	11:13	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0315-038.0-20140818	8/18/2014	12:03	Water	10	**290**	3.0 U	**14**	**650**	1.9 U	2.3 U
CRHE-DPT0315-043.0-20140818	8/18/2014	12:27	Water	20	**290**	6.0 U	**18 I**	**1100**	3.8 U	4.6 U
CRHE-DPT0315-048.0-20140818	8/18/2014	12:51	Water	1	**3.2**	0.30 U	0.29 U	**20.3**	0.19 U	0.23 U
CRHE-DPT0315-058.0-20140818	8/18/2014	13:10	Water	1	**6.3**	0.30 U	**0.37 I**	**34.1**	0.19 U	0.23 U
CRHE-DPT0316-038.0-20140818	8/18/2014	13:53	Water	1	**72.7**	0.30 U	**1.1**	**8.0**	0.19 U	0.23 U
CRHE-DPT0316-043.0-20140818	8/18/2014	14:30	Water	1	**8.4**	0.30 U	0.29 U	**21.9**	0.19 U	0.23 U
CRHE-DPT0316-048.0-20140818	8/18/2014	15:02	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0316-058.0-20140818	8/18/2014	15:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0317-033.0-20140818	8/18/2014	16:16	Water	1, 10	**740**	0.30 U	**12.9**	**30.7**	0.19 U	0.23 U
CRHE-DPT0317-038.0-20140818	8/18/2014	16:40	Water	1, 100	**1900**	0.30 U	**35.4**	**27.1**	0.19 U	0.23 U
CRHE-DPT0317-043.0-20140819	8/19/2014	08:25	Water	50	**2800**	15 U	**32 I**	**29 I**	10 U	12 U
CRHE-DPT0317-048.0-20140819	8/19/2014	08:46	Water	1	**35.0**	0.30 U	**1.1**	**6.4**	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0317-058.0-20140819	8/19/2014	09:11	Water	1	**0.93 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0318-033.0-20140819	8/19/2014	09:55	Water	50	**1000**	15 U	15 U	11 U	10 U	12 U
CRHE-DPT0318-038.0-20140819	8/19/2014	10:18	Water	10	**1300**	3.0 U	**20**	**20**	1.9 U	2.3 U
CRHE-DPT0319-038.0-20140819	8/19/2014	11:57	Water	1	**2.5**	0.30 U	**0.63 I**	**1.2**	0.19 U	0.23 U
CRHE-DPT0319-043.0-20140819	8/19/2014	12:21	Water	50	**630**	15 U	**71**	**2200**	10 U	12 U
CRHE-DPT0319-048.0-20140819	8/19/2014	12:58	Water	100	**350**	30 U	**120**	**3700**	**410**	23 U
CRHE-DPT0319-058.0-20140819	8/19/2014	13:10	Water	1	**0.33 I**	0.30 U	0.29 U	**5.2**	**0.20 I**	0.23 U
CRHE-DPT0320-038.0-20140819	8/19/2014	13:49	Water	20	**400**	6.0 U	5.8 U	**13 I**	3.8 U	4.6 U
CRHE-DPT0320-043.0-20140819	8/19/2014	14:08	Water	20	**980**	6.0 U	**17 I**	**460**	3.8 U	4.6 U
CRHE-DPT0320-048.0-20140819	8/19/2014	14:29	Water	20	**540**	6.0 U	**29**	**1000**	3.8 U	4.6 U
CRHE-DPT0320-058.0-20140819	8/19/2014	14:50	Water	1	**0.30 I**	0.30 U	0.29 U	**0.65 I**	0.19 U	0.23 U
CRHE-DPT0321-038.0-20140819	8/19/2014	16:00	Water	1	**0.49 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0321-043.0-20140819	8/19/2014	16:25	Water	20	**1100**	6.0 U	**33**	**1200**	**7.0 I**	4.6 U
CRHE-DPT0321-048.0-20140819	8/19/2014	16:48	Water	10	**380**	3.0 U	**13**	**310**	1.9 U	2.3 U
CRHE-DPT0321-058.0-20140819	8/19/2014	17:13	Water	1	**1.4**	0.30 U	0.29 U	**6.0**	0.19 U	0.23 U
CRHE-DPT0322-038.0-20140820	8/20/2014	07:59	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0322-043.0-20140820	8/20/2014	08:21	Water	20	**650**	6.0 U	5.8 U	**63**	3.8 U	4.6 U
CRHE-DPT0322-048.0-20140820	8/20/2014	08:45	Water	50	**680**	15 U	**19 I**	**1600**	10 U	12 U
CRHE-DPT0322-058.0-20140820	8/20/2014	09:08	Water	1	0.26 U	0.30 U	0.29 U	**0.28 I**	0.19 U	0.23 U
CRHE-DPT0323-038.0-20140820	8/20/2014	09:55	Water	1	0.26 U	0.30 U	**2.3**	0.22 U	0.19 U	0.23 U
CRHE-DPT0323-043.0-20140820	8/20/2014	10:16	Water	1	0.26 U	0.30 U	**0.40 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0323-048.0-20140820	8/20/2014	10:40	Water	1	**1.4**	0.30 U	0.29 U	**9.7**	0.19 U	0.23 U
CRHE-DPT0323-058.0-20140820	8/20/2014	11:01	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0324-038.0-20140820	8/20/2014	11:55	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0324-043.0-20140820	8/20/2014	12:20	Water	2	**130**	0.60 U	**6.9**	**110**	0.38 U	0.46 U
CRHE-DPT0324-048.0-20140820	8/20/2014	12:40	Water	50	**380**	15 U	**160**	**4400**	**740**	12 U
CRHE-DPT0324-058.0-20140820	8/20/2014	13:03	Water	1	0.26 U	0.30 U	0.29 U	**1.7**	0.19 U	0.23 U
CRHE-DPT0325-038.0-20140820	8/20/2014	13:50	Water	1	0.26 U	0.30 U	0.29 U	**1.4**	0.19 U	0.23 U
CRHE-DPT0325-043.0-20140820	8/20/2014	14:12	Water	10	**860**	3.0 U	**34**	**1200**	**60**	2.3 U
CRHE-DPT0325-048.0-20140820	8/20/2014	14:35	Water	20	**310**	6.0 U	**29**	**1500**	**38**	4.6 U
CRHE-DPT0326-038.0-20140820	8/20/2014	15:26	Water	1	0.26 U	0.30 U	0.29 U	**0.46 I**	0.19 U	0.23 U
CRHE-DPT0326-043.0-20140820	8/20/2014	15:48	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0326-048.0-20140820	8/20/2014	16:14	Water	10	**1000**	3.0 U	**13**	**200**	1.9 U	2.3 U
CRHE-DPT0326-058.0-20140820	8/20/2014	16:41	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0327-038.0-20140821	8/21/2014	07:58	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0327-043.0-20140821	8/21/2014	08;24	Water	50	**1600**	15 U	**69**	**2700**	**26 I**	12 U
CRHE-DPT0327-048.0-20140821	8/21/2014	08:47	Water	50	**1100**	15 U	**90**	**2900**	**130**	12 U
CRHE-DPT0327-053.0-20140821	8/21/2014	09:16	Water	5	**70**	1.5 U	**4.6 I**	**210**	**1.6 I**	1.2 U
CRHE-DPT0327-058.0-20140821	8/21/2014	09:45	Water	1	**8.7**	0.30 U	**0.72 I**	**28.6**	**0.91 I**	0.23 U
CRHE-DPT0328-038.0-20140821	8/21/2014	10:23	Water	2	**100**	0.60 U	**2.5**	**2.6**	0.38 U	0.46 U
CRHE-DPT0328-043.0-20140821	8/21/2014	10:54	Water	5	**160**	1.5 U	**3.0 I**	**3.2 I**	1.0 U	1.2 U
CRHE-DPT0328-048.0-20140821	8/21/2014	11:16	Water	1	**137.4**	0.30 U	**5.9**	**42.0**	0.19 U	0.23 U
CRHE-DPT0328-053.0-20140821	8/21/2014	11:41	Water	10	**120**	3.0 U	**35**	**1000**	1.9 U	2.3 U
CRHE-DPT0328-058.0-20140821	8/21/2014	12:03	Water	1	**0.66 I**	0.30 U	0.29 U	**0.82 I**	0.19 U	0.23 U
CRHE-DPT0329-038.0-20140821	8/21/2014	13:04	Water	50	**2500**	15 U	**19 I**	**51**	10 U	12 U
CRHE-DPT0329-043.0-20140821	8/21/2014	13:26	Water	50	**1700**	15 U	**18 I**	**40 I**	10 U	12 U
CRHE-DPT0329-048.0-20140821	8/21/2014	13:48	Water	10	**420**	3.0 U	**5.1 I**	**24**	1.9 U	2.3 U
CRHE-DPT0329-053.0-20140821	8/21/2014	14:07	Water	2	**49**	0.60 U	**1.0 I**	**7.3**	0.38 U	0.46 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0329-058.0-20140821	8/21/2014	14:29	Water	1	**2.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0330-038.0-20140821	8/21/2014	15:11	Water	1	0.26 U	0.30 U	**2.1**	0.22 U	0.19 U	0.23 U
CRHE-DPT0330-043.0-20140821	8/21/2014	15:32	Water	10	**520**	3.0 U	**8.2 I**	**120**	1.9 U	2.3 U
CRHE-DPT0330-048.0-20140821	8/21/2014	15:55	Water	50	**870**	15 U	15 U	**270**	10 U	12 U
CRHE-DPT0330-053.0-20140821	8/21/2014	16:22	Water	10	**380**	3.0 U	**11**	**430**	1.9 U	2.3 U
CRHE-DPT0330-058.0-20140821	8/21/2014	16:37	Water	1	**7.0**	0.30 U	0.29 U	**2.5**	0.19 U	0.23 U
CRHE-DPT0331-033.0-20140822	8/22/2014	08:59	Water	50	**2200**	15 U	**16 I**	**56**	10 U	12 U
CRHE-DPT0331-038.0-20140822	8/22/2014	09:24	Water	50	**2500**	15 U	**33 I**	**39 I**	10 U	12 U
CRHE-DPT0331-043.0-20140822	8/22/2014	09:55	Water	20	**600**	6.0 U	**5.8 I**	**10 I**	3.8 U	4.6 U
CRHE-DPT0331-048.0-20140822	8/22/2014	10:20	Water	2	**47**	0.60 U	**1.3 I**	**13**	0.38 U	0.46 U
CRHE-DPT0331-058.0-20140822	8/22/2014	10:44	Water	1	**7.3**	0.30 U	0.29 U	**0.28 I**	0.19 U	0.23 U
CRHE-DPT0332-033.0-20140822	8/22/2014	11:30	Water	1	**1.9**	0.30 U	0.29 U	**0.50 I**	0.19 U	0.23 U
CRHE-DPT0332-038.0-20140822	8/22/2014	11:50	Water	1	**3.4**	0.30 U	**1.4**	**0.35 I**	0.19 U	0.23 U
CRHE-DPT0332-043.0-20140822	8/22/2014	12:24	Water	2	**88**	0.60 U	**3.1**	**110**	0.38 U	0.46 U
CRHE-DPT0332-048.0-20140822	8/22/2014	12:50	Water	10	**230**	3.0 U	**29**	**1200**	1.9 U	2.3 U
CRHE-DPT0332-058.0-20140822	8/22/2014	13:19	Water	1	**1.2**	0.30 U	0.29 U	**10.0**	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0333-028.0-20140822	8/22/2014	14:13	Water	1	**3.4**	0.30 U	0.29 U	**18.9**	0.19 U	0.23 U
CRHE-DPT0333-038.0-20140822	8/22/2014	14:33	Water	10	**24**	3.0 U	2.9 U	**57**	1.9 U	2.3 U
CRHE-DPT0333-043.0-20140822	8/22/2014	14:54	Water	1	**19.1**	0.30 U	0.29 U	**22.9**	0.19 U	0.23 U
CRHE-DPT0333-048.0-20140822	8/22/2014	15:17	Water	1	**21.20**	0.30 U	0.29 U	**1.8**	0.19 U	0.23 U
CRHE-DPT0333-058.0-20140822	8/22/2014	15:38	Water	1	0.26 U	0.30 U	0.29 U	**0.37 I**	0.19 U	0.23 U
CRHE-DPT0318-043.0-20140822	8/22/2014	16:17	Water	10	**1800**	3.0 U	**18.1**	**55.0**	1.9 U	2.3 U
CRHE-DPT0334-033.0-20140823	8/23/2014	08:01	Water	1,20	**1300**	0.30 U	**5.7**	**3.6**	0.19 U	0.23 U
CRHE-DPT0334-038.0-20140823	8/23/2014	08:24	Water	1,20	**1500**	0.30 U	**9.2**	**3.7**	0.19 U	0.23 U
CRHE-DPT0334-043.0-20140823	8/23/2014	09:17	Water	10	**530**	3.0 U	**3.5 I**	**4.9 I**	1.9 U	2.3 U
CRHE-DPT0334-048.0-20140823	8/23/2014	09:38	Water	10	**8.8 I**	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U
CRHE-DPT0334-058.0-20140823	8/23/2014	10:03	Water	1	**3.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0335-033.0-20140823	8/23/2014	10:47	Water	10	2.6 U	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U
CRHE-DPT0335-038.0-20140823	8/23/2014	00:00	Water	1	**13.4**	0.30 U	0.29 U	**5.3**	0.19 U	0.23 U
CRHE-DPT0335-043.0-20140823	8/23/2014	11:32	Water	1	**0.79 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0335-048.0-20140823	8/23/2014	11:56	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0335-058.0-20140823	8/23/2014	12:20	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0336-028.0-20140823	8/23/2014	13:14	Water	20	**1500**	6.0 U	5.8 U	**6.6 I**	3.8 U	4.6 U
CRHE-DPT0336-033.0-20140823	8/23/2014	13:33	Water	20	**2400**	6.0 U	**13 I**	4.4 U	3.8 U	4.6 U
CRHE-DPT0336-038.0-20140823	8/23/2014	13:52	Water	10	**140**	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U
CRHE-DPT0336-043.0-20140823	8/23/2014	14:15	Water	10	2.6 U	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U
CRHE-DPT0336-048.0-20140823	8/23/2014	14:42	Water	1	**0.53 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0336-058.0-20140823	8/23/2014	15:04	Water	1	**3.4**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0337-033.0-20140823	8/23/2014	16:01	Water	1	**17.7**	0.30 U	0.29 U	**3.3**	0.19 U	0.23 U
CRHE-DPT0337-038.0-20140823	8/23/2014	16:28	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0337-043.0-20140824	8/24/2014	07:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0337-048.0-20140824	8/24/2014	08:07	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0337-058.0-20140824	8/24/2014	08:31	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0338-028.0-20140824	8/24/2014	09:06	Water	1	**1.4**	0.30 U	**0.71 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0338-033.0-20140824	8/24/2014	09:25	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0338-038.0-20140824	8/24/2014	09:45	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0339-028.0-20140824	8/24/2014	10:28	Water	20	**210**	6.0 U	5.8 U	4.4 U	3.8 U	4.6 U
CRHE-DPT0339-033.0-20140824	8/24/2014	10:46	Water	20	**700**	6.0 U	5.8 U	4.4 U	3.8 U	4.6 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0339-038.0-20140824	8/24/2014	11:07	Water	1	**0.79 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW190517-20140824	8/25/2014	16:03	Water	10	**23**	3.0 U	2.9 U	**61**	**2.6 I**	2.3 U
WILC-IDW188850-20140818	8/18/2014	09:30	Water	10	2.6 U	3.0 U	2.9 U	**3.6 I**	1.9 U	2.3 U
WILC-IDW195149-20140818	8/18/2014	09:35	Water	10	**3.1 I**	3.0 U	2.9 U	**42**	**8.5 I**	2.3 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Method Blank Summary

NASA CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Method Blank	8/18/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/18/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/19/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/19/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/20/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/20/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/21/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/22/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/22/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/23/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank	8/24/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # kB3

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE	KSC, FL
SAMPLERS	**CONTACT PERSON**	**BATCH # (Lab Use Only)**
	Lane	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOCs (4 bottles)	COMMENT / SAMPLE PRE FIX: 30 81814
20140818											
CRHE DPT0314-038.0	8/18/14	0950		✓	8/18/14	11:00		W	2	✓	01 A,B
-043.0		1016									02
-048.0		1050									03
-058.0		1113				1330					04
DPT0315-038.0		1203									05
-043.0		1227									06
ILC IDW188850		0430									07
ILC IDW195149		0935									08
SES IDW195314		1215									09
CRHE DPT0315-048.0		1251				1445					10
-058.0		1310									11
DPT0316-038.0		1353									12
-043.0		1430									13
-048.0		1502				1655					14
-058.0		1526				1655					15

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 8/18/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS Mobile Laboratory Services

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TEL (352) 538-6507

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS	BATCH # (Lab Use Only)
Geosyntec	CRHF KSC, FL	
SAMPLERS	CONTACT PERSON: Lane	

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

	SAMPLE FIELD ID.\ NUMBER 20140818	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOCs, ft, 1,6	COMMENT / SAMPLE PRE FIX: 3081814
CRHE	DPT0317-033.0	8/18/14	1616		-	8/18/14	1655		W	2	✓	16 A,B
	-038.0	↓	1640			↓	1655					17 A,B
CRHE	DPT0317-043.0	8/19/14	0825			8/19/14	0925					3081914-01 A,B
	-048.0		0846				↓					02 A,B
	-058.0		0911									03
	DPT0318-033.0		0955				1240					04
	-038.0		1013				↓					05
	DPT0319-038.0		1157									06
	-043.0		1221									07
	-048.0		1258				1420					08
	-058.0		1310				↓					09
	DPT0320-038.0		1349									10
	-043.0		1408				↓					11
	-048.0		1429				1550					12

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 8/19/14

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRTE	KSC, FL
SAMPLERS	CONTACT PERSON: Lane	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

	SAMPLE FIELD ID.\ NUMBER 20140819	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOCs (Full List)	COMMENT / SAMPLE PRE FIX: 3081914-
RITE	DPT0320-058.0	8/19/14	1450		✓	8/19/14	1550		W	2	✓	13 A,B
	DPT0321-038.0		1600				1720					14
	-043.0		1625									15
	-048.0		1648									16
	-058.0		1713									17
RITE	DPT0322-038.0	8/20/14	0759			8/20/14	0920		W	2	✓	3082014-01A,B
	-043.0		0821									02 A,B
	-048.0		0845									03
	-058.0		0908									04
	DPT0323-038.0		0955				1115					05
	-043.0		1016									06
	-048.0		1040									07
	-058.0		1101									08
	DPT0324-038.0		1155				1315					09

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time: 8/20/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTE KSC, FL

SAMPLERS

CONTACT PERSON: Lane

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER 20140820	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOCs, TICs	COMMENT / SAMPLE PRE FIX: 30820 14 -
CRTE DPT0324-043.0	8/20/14	1220		✓	8/20/14	1315		W	2	✓	10 A,B
-048.0		1240				↓					11
-058.0		1303									12
DPT0325-038.0		1350				1445					13
-043.0		1412				↓					14
-048.0		1435									15
DPT0326-038.0		1526				1650					16
-043.0		1548									17
-048.0		1614									18
-058.0	↓	1641			↓	↓		↓	↓	↓	19

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/20/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Volatiles

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER 20140821	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	Volatiles	30821/14 COMMENT / SAMPLE PRE FIX
CRHE DPT 0327 - 038.0	8/21/14	0758		✓	8/21/14	0950		W	2	✓	01 A, B
-043.0		0824									02
-048.0		0847									03
-053.0		0916									04
-058.0		0945									05
DPT 0328 - 038.0		1023				1210					06
-043.0		1054									07
-048.0		1116									08
-053.0		1141									09
-058.0		1203									10
DPT 0329 - 038.0		1304				1435					11
-043.0		1326									12
-048.0		1348									13
-053.0		1407									14
-058.0		1429									15

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/21/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS	
Geosyntec	CRHE	KSC, FL
SAMPLERS	**CONTACT PERSON**	**BATCH # (Lab Use Only)**

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

	SAMPLE FIELD ID.\ NUMBER 20140821	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Volatiles	COMMENT / SAMPLE PRE FIX
RHE	DPT0330-038.0	8/21/14	1511		✓	8/22/14	1650		W	2	✓	16 A,B
	-043.0		1532				↓		↓	↓	↓	17 ↓
	-048.0		1555									18
	-053.0		1622									19
	-058.0		1637									20
RHE	DPT0331-033.0	8/22/14	0859			8/22/14	1100		W	2	✓	3092214-01A
	-038.0	↓	0924			↓	↓		↓	↓	↓	02 A,B
	-043.0		0955									03 ↓
	-048.0		1020									04
	-058.0		1044				↓					05
	DPT0332-033.0		1130				1330					06
	-038.0		1150									07
	-043.0		1224									08
	-048.0	↓	1250			↓	↓		↓	↓	↓	09

Precleaned Containers / Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/22/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Volatiles

	SAMPLE FIELD ID.\ NUMBER 20140822	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS					COMMENT / SAMPLE PRE FIX 30822 14-
CRHE	DPT0332-058.0	8/22/14	1319		✓	8/22/14	1330		W	2	✓				10 A,B
	DPT0333-028.0		1413				1545								11
	-038.0		1433												12
	-043.0		1454												13
	-048.0		1517												14
	-058.0		1538												15
	DPT0318-043.0		1617				1640								16

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE KSC

SAMPLERS

CONTACT PERSON: Chris

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS	COMMENT / SAMPLE PRE FIX
CRHE DPT0334-033.0	0823	0801		✓	8/23/14	1030		W	2	✓ Volt	01 A,13
038.0		0824									02
043.0		0917									03
048.0		0938									04
058.0		1003									05
DPT0335-033.0		1047				1235					06
-038.0											07
-043.0		1132									08
-048.0		1156									09
-058.0		1220									10
DPT0336-028.0		1314				1520					11
-033.0		1333									12
-038.0		1352									13
-043.0		1415									14
-048.0		1442									15

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/23/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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MOBILE UNIT #

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC

SAMPLERS

CONTACT PERSON: Chris

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOH

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS						COMMENT / SAMPLE PRE FIX
DPT 0336-058.0	0823	1504		✓	8/23/14	1520		W	2	✓					16 A, B
DPT 0337-033.0	↓	1601		↓	↓	1630		↓	↓	↓					17
↓ -038.0	↓	1628		↓	↓	↓		↓	↓	↓					18 ↓

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 6/23/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT #

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRTE KSC

SAMPLERS

CONTACT PERSON: Chris

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Volt

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENT / SAMPLE PRE FIX
CRTE DPT 0337-043.0	0824	0745		✓	8/24/14	0955		W	2	01 A, B
-048.0		0807								02
-058.0		0831								03
DPT 0338-028.0		0906								04
-033.0		0925								05
-038.0		0945								06
DPT 0339-028.0		1028				1125				07 Both ICs had "38" must be "28"
-033.0		1046								08
-038.0		1107								09

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/24/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS Mobile Laboratory Services

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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB 3

CLIENT NAME	PROJECT NAME & ADDRESS																
Geosyntec	CRHE KSC, FL																
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)										
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS					PRESERVATION: C Chilled, H HCL, Ot Other (see Remarks)	COMMENT / SAMPLE PRE FIX	
										VOCs, 1,4-D						3082514	
RHE IDW 190517	8/24/14	1603		✓	8/25/14	0930		W	2	✓						01 A, B	

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 8/25/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS, INC.
6821 SW Archer Road
Gainesville, Florida 32608
***Telephone* (352) 367-0073**
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Email: info@kbmobilelabs.com

October 7, 2014

Lane Dorman
Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project 14-120

Dear Mr. Dorman:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed from September 22 to October 3, 2014. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From September 22 to October 3, 2014, a total of 105 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1, 1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene,

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815
KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840
KB Mobile Labs Unit KB3: FDOH NELAP Certification Number E82816

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the

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standard deviation from the mean of historical measurements of the percent recovery of spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. Sample CRHE-DPT0354-033.0-20140929 was rerun neat on 10/3/14.

3. Second reporting in Field Data for sample DPT0342-038.0 on 9/23 is actually DPT0342-058.0.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Yael Hoogland, Greg Lamb, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates: 9/22/14-10/3/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 20	09/22/14	105	111	101	102	Pass	Pass	Pass	Pass
LCS 20	09/22/14	103	113	99	107	Pass	Pass	Pass	Pass
TUNE/BLANK	09/22/14	102	103	102	105	Pass	Pass	Pass	Pass
CRHE-DPT0340-033.0	09/22/14	102	112	100	103	Pass	Pass	Pass	Pass
CRHE-DPT0340-038.0 1:20	09/22/14	104	109	102	104	Pass	Pass	Pass	Pass
CRHE-DPT0340-043.0 1:20	09/22/14	103	106	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0340-048.0 1:5	09/22/14	102	107	102	106	Pass	Pass	Pass	Pass
CRHE-DPT0340-058.0	09/22/14	105	115	101	105	Pass	Pass	Pass	Pass
CRHE-DPT0341-033.0	09/22/14	103	113	100	106	Pass	Pass	Pass	Pass
CRHE-DPT0341-038.0	09/22/14	104	116	102	107	Pass	Pass	Pass	Pass
CRHE-DPT0341-043.0 1:50	09/22/14	101	108	101	104	Pass	Pass	Pass	Pass
CRHE-DPT0341-048.0 1;10	09/22/14	103	110	104	104	Pass	Pass	Pass	Pass
CRHE-DPT0341-053.0	09/22/14	104	115	103	104	Pass	Pass	Pass	Pass
CRHE-DPT0340-058.0 MS	09/22/14	109	126	99	104	Pass	Pass	Pass	Pass
CRHE-DPT0340-058.0 MSD	09/22/14	103	112	103	102	Pass	Pass	Pass	Pass
CCS 20	09/22/14	100	115	104	102	Pass	Pass	Pass	Pass
CCS 50	09/22/14	101	109	104	103	Pass	Pass	Pass	Pass
CCS 50	09/23/14	108	112	96	88	Pass	Pass	Pass	Pass
LCS 20	09/23/14	104	105	97	92	Pass	Pass	Pass	Pass
BLANK	09/23/14	96	101	99	100	Pass	Pass	Pass	Pass
CRHE-DPT0341-058.0	09/23/14	99	107	95	86	Pass	Pass	Pass	Pass
CRHE-DPT0342-033.0	09/23/14	97	96	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0342-038.0	09/23/14	94	95	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0342-043.0	09/23/14	96	97	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0342-048.0	09/23/14	96	101	95	90	Pass	Pass	Pass	Pass
CRHE-DPT0342-058.0	09/23/14	100	98	98	85	Pass	Pass	Pass	Pass
TUNE/BLANK	09/24/14	93	92	96	82	Pass	Pass	Pass	Pass
CCS 50	09/24/14	104	102	100	83	Pass	Pass	Pass	Pass
LCS 20	09/24/14	106	107	94	86	Pass	Pass	Pass	Pass
BLANK	09/24/14	98	97	95	86	Pass	Pass	Pass	Pass
CRHE-DPT0343-033.0	09/24/14	103	103	94	91	Pass	Pass	Pass	Pass
CRHE-DPT0343-038.0	09/24/14	98	99	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0343-043.0	09/24/14	98	96	96	87	Pass	Pass	Pass	Pass
CRHE-DPT0343-048.0	09/24/14	99	94	98	93	Pass	Pass	Pass	Pass
CRHE-DPT0342-058.0 MS	09/24/14	100	97	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0342-058.0 MSD	09/24/14	99	98	97	84	Pass	Pass	Pass	Pass
CCS	09/24/14	115	130	90	77	Pass	Pass	Pass	Pass
LCS 20	09/24/14	114	124	94	80	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Yael Hoogland, Greg Lamb, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates: 9/22/14-10/3/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
METHOD BLANK	09/24/14	106	115	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0344-033.0	09/24/14	108	113	97	91	Pass	Pass	Pass	Pass
CRHE-DPT0344-038.0 1:10	09/24/14	106	109	94	90	Pass	Pass	Pass	Pass
CRHE-DPT0344-043.0	09/24/14	105	106	96	94	Pass	Pass	Pass	Pass
CRHE-DPT0344-048.0 1:2	09/24/14	108	113	95	92	Pass	Pass	Pass	Pass
CRHE-DPT0344-053.0	09/24/14	105	111	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0344-058.0	09/24/14	103	106	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0345-033.0	09/24/14	102	112	96	92	Pass	Pass	Pass	Pass
CRHE-DPT0345-038.0	09/24/14	103	109	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0345-043.0	09/24/14	99	98	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0345-048.0	09/24/14	97	97	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0345-053.0	09/24/14	103	106	96	91	Pass	Pass	Pass	Pass
CRHE-DPT0345-058.0	09/24/14	99	104	98	94	Pass	Pass	Pass	Pass
CRHE-DPT0346-033.0	09/24/14	100	102	97	94	Pass	Pass	Pass	Pass
CRHE-DPT0346-038.0	09/24/14	110	124	93	95	Pass	Pass	Pass	Pass
CRHE-DPT0346-043.0	09/24/14	108	114	96	96	Pass	Pass	Pass	Pass
CRHE-DPT0346-048.0	09/24/14	103	111	95	93	Pass	Pass	Pass	Pass
CRHE-DPT0346-053.0	09/25/14	104	115	96	97	Pass	Pass	Pass	Pass
CRHE-DPT0346-058.0	09/25/14	103	109	96	96	Pass	Pass	Pass	Pass
IDW197036 1:10	09/25/14	103	107	99	93	Pass	Pass	Pass	Pass
IDW195315 1:10	09/25/14	97	100	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0346-058.0 MS	09/25/14	107	122	97	88	Pass	Pass	Pass	Pass
CRHE-DPT0346-058.0 MSD	09/25/14	116	127	97	86	Pass	Pass	Pass	Pass
CCS 50	09/25/14	116	136	93	78	Pass	Pass	Pass	Pass
TUNE/BLANK	09/25/14	103	106	99	91	Pass	Pass	Pass	Pass
CCS 50	09/25/14	108	132	93	82	Pass	Pass	Pass	Pass
LCS 20	09/25/14	108	122	96	84	Pass	Pass	Pass	Pass
BLANK	09/25/14	100	104	99	94	Pass	Pass	Pass	Pass
CRHE-DPT0347-028.0	09/25/14	104	110	99	92	Pass	Pass	Pass	Pass
CRHE-DPT0347-033.0	09/25/14	103	116	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0347-038.0	09/25/14	105	118	92	84	Pass	Pass	Pass	Pass
CRHE-DPT0347-043.0	09/25/14	107	117	95	85	Pass	Pass	Pass	Pass
CRHE-DPT0347-048.0	09/25/14	107	129	94	84	Pass	Pass	Pass	Pass
CRHE-DPT0347-058.0	09/25/14	104	126	91	84	Pass	Pass	Pass	Pass
CRHE-DPT0348-033.0	09/25/14	107	122	94	88	Pass	Pass	Pass	Pass
CRHE-DPT0348-038.0	09/25/14	116	136	96	79	Pass	Pass	Pass	Pass
CCS 50	09/25/14	120	156	96	75	Pass	> UCL	Pass	Pass
LCS 20	09/25/14	123	148	93	82	Pass	> UCL	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Yael Hoogland, Greg Lamb, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates: 9/22/14-10/3/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
BLANK	09/25/14	110	120	95	86	Pass	Pass	Pass	Pass
CRHE-DPT0348-043.0	09/25/14	110	125	95	89	Pass	Pass	Pass	Pass
CRHE-DPT0348-048.0	09/25/14	111	130	94	86	Pass	Pass	Pass	Pass
CRHE-DPT0348-053.0	09/25/14	106	132	100	89	Pass	Pass	Pass	Pass
CRHE-DPT0349-033.0	09/25/14	109	131	98	91	Pass	Pass	Pass	Pass
CRHE-DPT0349-038.0	09/25/14	119	141	94	94	Pass	> UCL	Pass	Pass
CRHE-DPT0349-043.0	09/25/14	115	133	97	92	Pass	Pass	Pass	Pass
CRHE-DPT0349-048.0	09/25/14	109	132	100	94	Pass	Pass	Pass	Pass
CRHE-DPT0349-053.0	09/25/14	112	139	97	92	Pass	> UCL	Pass	Pass
CRHE-DPT0349-058.0	09/25/14	115	142	94	88	Pass	> UCL	Pass	Pass
CRHE-DPT0348-053.0 RERUN	09/25/14	117	137	97	91	Pass	> UCL	Pass	Pass
CRHE-DPT0348-058.0 RERUN	09/25/14	117	144	94	92	Pass	> UCL	Pass	Pass
CRHE-DPT0347-043.0 MS	09/25/14	117	143	97	84	Pass	> UCL	Pass	Pass
CRHE-DPT0347-043.0 MSD	09/25/14	125	151	100	88	Pass	> UCL	Pass	Pass
CCS 20	09/25/14	128	156	96	85	Pass	> UCL	Pass	Pass
TUNE/BLANK	09/26/14	123	158	94	91	Pass	> UCL	Pass	Pass
CCS 20	09/26/14	134	161	90	81	Pass	> UCL	Pass	Pass
LCS 20	09/26/14	126	169	90	79	Pass	> UCL	Pass	Pass
BLANK	09/26/14	106	127	86	83	Pass	Pass	Pass	Pass
CRHE-DPT0350-033.0	09/26/14	112	132	97	93	Pass	Pass	Pass	Pass
CRHE-DPT0350-038.0	09/26/14	110	129	92	85	Pass	Pass	Pass	Pass
BLANK/TUNE	09/26/14	97	106	102	116	Pass	Pass	Pass	Pass
CCS 20	09/26/14	92	101	103	119	Pass	Pass	Pass	Pass
CCS 20	09/27/14	86	79	113	117	Pass	Pass	Pass	Pass
LCS 20	09/27/14	87	88	110	110	Pass	Pass	Pass	Pass
BLANK	09/27/14	87	85	108	122	Pass	Pass	Pass	Pass
CRHE-DPT0350-043.0 1:10	09/27/14	82	81	109	128	Pass	Pass	Pass	Pass
CRHE-DPT0350-048.0 1:20	09/27/14	87	81	111	121	Pass	Pass	Pass	Pass
CRHE-DPT0350-053.0	09/27/14	87	82	110	128	Pass	Pass	Pass	Pass
CRHE-DPT0350-058.0	09/27/14	86	83	110	122	Pass	Pass	Pass	Pass
CRHE-DPT0351-033.0	09/27/14	87	83	113	129	Pass	Pass	Pass	Pass
CRHE-DPT0351-038.0	09/27/14	87	87	111	128	Pass	Pass	Pass	Pass
CRHE-DPT0351-043.0	09/27/14	83	83	112	133	Pass	Pass	Pass	Pass
CRHE-DPT0351-048.0	09/27/14	86	84	108	119	Pass	Pass	Pass	Pass
CRHE-DPT0351-053.0	09/27/14	84	80	114	119	Pass	Pass	Pass	Pass
CRHE-DPT0352-033.0	09/27/14	87	84	111	121	Pass	Pass	Pass	Pass
CRHE-DPT0352-038.0	09/27/14	85	84	110	121	Pass	Pass	Pass	Pass
CRHE-DPT0352-043.0	09/27/14	89	85	113	111	Pass	Pass	Pass	Pass

***Surrogate Compounds:**
S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
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KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Yael Hoogland, Greg Lamb, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates: 9/22/14-10/3/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0352-048.0	09/27/14	89	83	108	119	Pass	Pass	Pass	Pass
CRHE-DPT0352-053.0	09/27/14	89	84	106	120	Pass	Pass	Pass	Pass
CRHE-DPT0352-058.0	09/27/14	84	89	113	122	Pass	Pass	Pass	Pass
IDW198326 1:10	09/27/14	89	85	110	119	Pass	Pass	Pass	Pass
CRHE-DPT0351-053.0 MS	09/27/14	87	87	108	124	Pass	Pass	Pass	Pass
CRHE-DPT0351-053.0 MSD	09/27/14	86	84	109	119	Pass	Pass	Pass	Pass
CCS 20	09/27/14	89	85	111	117	Pass	Pass	Pass	Pass
LCS 20	09/27/14	95	98	103	120	Pass	Pass	Pass	Pass
BLANK	09/27/14	94	101	107	116	Pass	Pass	Pass	Pass
CRHE-DPT0350-053.0 1:10	09/27/14	91	91	109	118	Pass	Pass	Pass	Pass
CRHE-DPT0352-033.0 1:10	09/27/14	87	85	107	118	Pass	Pass	Pass	Pass
CCS 20	09/27/14	90	93	107	113	Pass	Pass	Pass	Pass
CCS 20	09/29/14	115	115	90	108	Pass	Pass	Pass	Pass
LCS 20	09/29/14	103	98	92	103	Pass	Pass	Pass	Pass
BLANK	09/29/14	97	87	96	110	Pass	Pass	Pass	Pass
CRHE-DPT0353-028.0	09/29/14	98	93	97	115	Pass	Pass	Pass	Pass
CRHE-DPT0353-033.0	09/29/14	99	87	95	119	Pass	Pass	Pass	Pass
CRHE-DPT0353-038.0	09/29/14	97	89	97	115	Pass	Pass	Pass	Pass
CRHE-DPT0353-043.0	09/29/14	97	91	96	115	Pass	Pass	Pass	Pass
CRHE-DPT0353-048.0	09/29/14	98	94	94	116	Pass	Pass	Pass	Pass
CRHE-DPT0353-058.0	09/29/14	95	88	95	111	Pass	Pass	Pass	Pass
CRHE-DPT0343-053.0	09/29/14	92	86	97	112	Pass	Pass	Pass	Pass
CRHE-DPT0343-058.0	09/29/14	100	92	96	118	Pass	Pass	Pass	Pass
CRHE-DPT0354-033.0 1:50	09/29/14	96	86	98	118	Pass	Pass	Pass	Pass
CRHE-DPT0354-038.0	09/29/14	96	88	95	116	Pass	Pass	Pass	Pass
CRHE-DPT0354-043.0 1:5	09/29/14	94	88	97	105	Pass	Pass	Pass	Pass
CRHE-DPT0354-048.0 1:5	09/29/14	100	92	96	109	Pass	Pass	Pass	Pass
CRHE-DPT0354-053.0	09/29/14	95	90	99	123	Pass	Pass	Pass	Pass
CRHE-DPT0354-058.0	09/29/14	92	89	96	113	Pass	Pass	Pass	Pass
CRHE-DPT0355-033.0	09/29/14	99	87	96	117	Pass	Pass	Pass	Pass
CRHE-DPT0353-038.0 MS	09/29/14	107	100	96	111	Pass	Pass	Pass	Pass
CRHE-DPT0353-038.0 MSD	09/29/14	114	113	92	110	Pass	Pass	Pass	Pass
CCS 20	09/29/14	103	101	97	107	Pass	Pass	Pass	Pass
CCS 50	10/03/14	97	96	97	96	Pass	Pass	Pass	Pass
LCS 20	10/03/14	100	101	96	97	Pass	Pass	Pass	Pass
BLANK	10/03/14	103	101	99	91	Pass	Pass	Pass	Pass
CRHE-DPT0354-033.0	10/03/14	102	102	98	92	Pass	Pass	Pass	Pass
CRHE-DPT0356-033.0	10/03/14	102	100	99	90	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob George, Yael Hoogland, Greg Lamb, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates: 9/22/14-10/3/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0356-038.0	10/03/14	103	103	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0356-043.0	10/03/14	101	102	99	88	Pass	Pass	Pass	Pass
CRHE-DPT0356-048.0	10/03/14	102	100	100	89	Pass	Pass	Pass	Pass
CRHE-DPT0356-053.0	10/03/14	101	101	99	90	Pass	Pass	Pass	Pass
CRHE-DPT0356-058.0	10/03/14	101	101	100	89	Pass	Pass	Pass	Pass
CRHE-DPT0357-033.0	10/03/14	99	100	100	92	Pass	Pass	Pass	Pass
CRHE-DPT0357-038.0	10/03/14	100	99	101	92	Pass	Pass	Pass	Pass
CRHE-DPT0357-043.0	10/03/14	98	100	101	90	Pass	Pass	Pass	Pass
CRHE-DPT0357-048.0	10/03/14	99	100	101	92	Pass	Pass	Pass	Pass
CRHE-DPT0357-053.0	10/03/14	101	104	100	90	Pass	Pass	Pass	Pass
CRHE-DPT0357-058.0	10/03/14	101	100	100	92	Pass	Pass	Pass	Pass
CRHE-IDW198327 1:10	10/03/14	99	100	100	90	Pass	Pass	Pass	Pass
CRHE-IDW198328 1:10	10/03/14	100	100	102	93	Pass	Pass	Pass	Pass
CRHE-DPT0356-033.0 MS	10/03/14	97	97	100	95	Pass	Pass	Pass	Pass
CRHE-DPT0356-033.0 MSD	10/03/14	96	94	101	94	Pass	Pass	Pass	Pass
CCS 50	10/03/14	94	91	101	96	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data.

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Greg Lamb, Bob George, Tuan Luu, Yael Hoogland
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-120
Onsite Dates: 9/22/14-10/3/14	**Client Project Manager:** Lane Dorman	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0340-058.0 **Date of Analysis:** 9/22/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	76	66	14	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	104	88	17	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	103	88	16	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	114	96	17	Pass	Pass	Pass
Trichloroethene	52	143	20	111	91	19	Pass	Pass	Pass
Tetrachloroethene	50	144	20	100	87	14	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0342-058.0 **Date of Analysis:** 9/24/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	82	85	3	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	75	72	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	79	76	3	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	79	78	2	Pass	Pass	Pass
Trichloroethene	52	143	20	91	90	1	Pass	Pass	Pass
Tetrachloroethene	50	144	20	99	96	2	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0346-058.0 **Date of Analysis:** 9/24/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	41	70	52	Pass	Pass	> RPDL
1,1-Dichloroethene	30	165	20	72	74	3	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	74	81	10	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	77	85	10	Pass	Pass	Pass
Trichloroethene	52	143	20	88	91	4	Pass	Pass	Pass
Tetrachloroethene	50	144	20	91	96	6	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0347-043.0 **Date of Analysis:** 9/25/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	45	54	17	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	91	99	8	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	81	82	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	82	86	5	Pass	Pass	Pass
Trichloroethene	52	143	20	92	94	3	Pass	Pass	Pass
Tetrachloroethene	50	144	20	100	103	3	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

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Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Greg Lamb, Bob George, Tuan Luu, Yael Hoogland
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-120
Onsite Dates: 9/22/14-10/3/14	**Client Project Manager:** Lane Dorman	**Matrix**: Water

Samples: CRHE-DPT0351-053.0 **Date of Analysis:** 9/26/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	121	119	2	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	123	119	4	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	112	112	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	111	113	2	Pass	Pass	Pass
Trichloroethene	52	143	20	96	93	3	Pass	Pass	Pass
Tetrachloroethene	50	144	20	81	78	4	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-DPT0353-038.0 **Date of Analysis:** 9/29/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	333	411	21	> UCL	> UCL	> RPDL
1,1-Dichloroethene	30	165	20	207	199	4	> UCL	> UCL	Pass
Trans-1,2-Dichloroethene	37	155	20	106	104	2	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	110	118	6	Pass	Pass	Pass
Trichloroethene	52	143	20	97	99	1	Pass	Pass	Pass
Tetrachloroethene	50	144	20	92	88	5	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines. VC high concentration. Two separate vials.

Samples: CRHE-DPT0356-033.0 **Date of Analysis:** 10/3/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	97	95	2	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	99	100	1	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	94	93	0	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	95	94	1	Pass	Pass	Pass
Trichloroethene	52	143	20	97	96	1	Pass	Pass	Pass
Tetrachloroethene	50	144	20	96	97	1	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Greg Lamb, Bob George, Tuan Luu, Yael Hoogland
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-120
Onsite Dates: 9/22/14-10/3/14	**Client Project Manager:** Lane Dorman	**Matrix**: Water

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 9/22/2014
LCS 2 9/23/2014
LCS 3 9/24/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	23	to	168	64	105	94	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	96	85	95	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	93	103	97	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	100	101	96	Pass	Pass	Pass
Trichloroethene	55	to	145	99	104	99	Pass	Pass	Pass
Tetrachloroethene	53	to	147	96	102	100	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 4 **Date of Analysis:** 9/24/2014
LCS 5 9/25/2014
LCS 6 9/25/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#4	LCS#5	LCS#6	LCS#4	LCS#5	LCS#6
Vinyl Chloride	23	to	168	89	66	71	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	81	102	103	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	93	98	85	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	93	97	89	Pass	Pass	Pass
Trichloroethene	55	to	145	103	108	95	Pass	Pass	Pass
Tetrachloroethene	53	to	147	104	114	100	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: LCS 7 **Date of Analysis:** 9/26/2014
LCS 8 9/27/2014
LCS 9 9/27/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#7	LCS#8	LCS#9	LCS#7	LCS#8	LCS#9
Vinyl Chloride	23	to	168	115	112	132	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	119	116	136	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	96	115	122	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	104	134	123	Pass	Pass	Pass
Trichloroethene	55	to	145	118	107	107	Pass	Pass	Pass
Tetrachloroethene	53	to	147	118	84	93	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Greg Lamb, Bob George, Tuan Luu, Yael Hoogland
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-120
Onsite Dates: 9/22/14-10/3/14	**Client Project Manager:** Lane Dorman	**Matrix**: Water

Samples: LCS 10 — **Date of Analysis:** 9/29/2014
LCS 11 — 10/3/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#10	LCS#11		LCS#10	LCS#11	
Vinyl Chloride	23	to	168	210	100		> UCL	Pass	
1,1-Dichloroethene	39	to	161	169	103		> UCL	Pass	
Trans-1,2-Dichloroethene	40	to	153	105	105		Pass	Pass	
Cis-1,2-Dichloroethene	51	to	143	112	105		Pass	Pass	
Trichloroethene	55	to	145	100	104		Pass	Pass	
Tetrachloroethene	53	to	147	90	100		Pass	Pass	

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0340-033.0-20140922	9/22/2014	09:52	Water	1	0.26 U	0.30 U	**0.74 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0340-038.0-20140922	9/22/2014	10:18	Water	20	**460**	6.0 U	**14 I**	**350**	3.8 U	4.6 U
CRHE-DPT0340-043.0-20140922	9/22/2014	10:42	Water	20	**450**	6.0 U	**13 I**	**320**	3.8 U	4.6 U
CRHE-DPT0340-048.0-20140922	9/22/2014	11:11	Water	5	**43**	1.5 U	1.5 U	**4.5 I**	0.95 U	1.2 U
CRHE-DPT0340-058.0-20140922	9/22/2014	11:36	Water	1	0.26 U	0.30 U	0.29 U	**0.35 I**	0.19 U	0.23 U
CRHE-DPT0341-033.0-20140922	9/22/2014	12:56	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0341-038.0-20140922	9/22/2014	13:20	Water	1	**100**	0.30 U	**4.7**	**2.8**	0.19 U	0.23 U
CRHE-DPT0341-043.0-20140922	9/22/2014	13:42	Water	50	**560**	15 U	**28 I**	**1300**	9.5 U	12 U
CRHE-DPT0341-048.0-20140922	9/22/2014	14:11	Water	10	**36**	3.0 U	2.9 U	**140**	1.9 U	2.3 U
CRHE-DPT0341-053.0-20140922	9/22/2014	14:46	Water	1	**7.6**	0.30 U	**0.33 I**	**4.7**	0.19 U	0.23 U
CRHE-DPT0341-058.0-20140923	9/23/2014	08:11	Water	1	**8.9**	0.30 U	**0.44 I**	**22.3**	0.19 U	0.23 U
CRHE-DPT0342-033.0-20140923	9/23/2014	08:43	Water	1	**0.29 I**	0.30 U	**0.49 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0342-038.0-20140923	9/23/2014	09:03	Water	1	0.26 U	0.30 U	**1.3**	0.22 U	0.19 U	0.23 U
CRHE-DPT0342-043.0-20140923	9/23/2014	09:27	Water	1	**5.2**	0.30 U	**0.74 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0342-048.0-20140923	9/23/2014	10:37	Water	1	**120**	0.30 U	**2.8**	**26.2**	0.19 U	0.23 U
CRHE-DPT0342-058.0-20140923	9/23/2014	11:01	Water	1	**0.77 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0343-033.0-20140923	9/24/2012	12:00	Water	1	**3.0**	0.30 U	**0.31 I**	0.22 U	0.19 U	0.23 U
CRHE-DPT0343-038.0-20140923	9/24/2012	12:21	Water	1	**21.6**	0.30 U	**0.32 I**	**0.36 I**	0.19 U	0.23 U
CRHE-DPT0343-043.0-20140923	9/24/2012	12:44	Water	1	**81.4**	0.30 U	**1.4**	**9.3**	0.19 U	0.23 U
CRHE-DPT0343-048.0-20140923	9/24/2012	17:40	Water	1	**12.0**	0.30 U	**0.63 I**	**18.4**	0.19 U	0.23 U
CRHE-DPT0344-033.0-20140924	9/24/2012	09:10	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0344-038.0-20140924	9/24/2012	09:30	Water	10	**26**	3.0 U	2.9 U	**100**	1.9 U	2.3 U
CRHE-DPT0344-043.0-20140924	9/24/2012	09:52	Water	1	**5.3**	0.30 U	**0.49 I**	**3.3**	0.19 U	0.23 U
CRHE-DPT0344-048.0-20140924	9/24/2012	10:14	Water	2	**29**	0.60 U	**0.80 I**	**42**	0.38 U	0.46 U
CRHE-DPT0344-053.0-20140924	9/24/2012	10:46	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0344-058.0-20140924	9/24/2012	11:10	Water	1	0.26 U	0.30 U	0.29 U	**0.78 I**	0.19 U	0.23 U
CRHE-DPT0345-033.0-20140924	9/24/2012	11:53	Water	1	**1.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0345-038.0-20140924	9/24/2012	12:21	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0345-043.0-20140924	9/24/2012	13:20	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0345-048.0-20140924	9/24/2012	13:41	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0345-053.0-20140924	9/24/2012	14"10	Water	1	**0.40 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0345-058.0-20140924	9/24/2012	14:36	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0346-033.0-20140924	9/25/2014	15:24	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0346-038.0-20140924	9/25/2014	15:44	Water	1	**26.0**	0.30 U	**1.5**	**5.3**	0.19 U	0.23 U
CRHE-DPT0346-043.0-20140924	9/25/2014	16:05	Water	1	**7.8**	0.30 U	0.29 U	**1.8**	0.19 U	0.23 U
CRHE-DPT0346-048.0-20140924	9/25/2014	16:24	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0346-053.0-20140924	9/25/2014	16:57	Water	1	**0.78 I**	0.30 U	0.29 U	**0.24 I**	0.19 U	0.23 U
CRHE-DPT0346-058.0-20140924	9/25/2014	17:24	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0347-028.0-20140925	9/25/2014	08:48	Water	1	**9.6**	0.30 U	0.29 U	**1.8**	0.19 U	0.23 U
CRHE-DPT0347-033.0-20140925	9/25/2014	09:08	Water	1	**3.7**	0.30 U	0.29 U	**1.1**	0.19 U	0.23 U
CRHE-DPT0347-038.0-20140925	9/25/2014	09:24	Water	1	**0.7 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0347-043.0-20140925	9/25/2014	09:43	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0347-048.0-20140925	9/25/2014	10:13	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0347-058.0-20140925	9/25/2014	10:34	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0348-033.0-20140925	9/25/2014	11:20	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0348-038.0-20140925	9/25/2014	11:52	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0348-043.0-20140925	9/25/2014	12:21	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0348-048.0-20140925	9/25/2014	12:47	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0348-053.0-20140925	9/25/2014	13:10	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0348-058.0-20140925	9/25/2014	13:34	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0349-033.0-20140925	9/25/2014	15:28	Water	1	0.26 U	0.30 U	0.29 U	**0.90 I**	0.19 U	0.23 U
CRHE-DPT0349-038.0-20140925	9/25/2014	15:51	Water	1	**6.8**	0.30 U	**0.45 I**	**8.9**	0.19 U	0.23 U
CRHE-DPT0349-043.0-20140925	9/25/2014	16:11	Water	1	**21**	0.30 U	**1.8**	**0.76 I**	0.19 U	0.23 U
CRHE-DPT0349-048.0-20140925	9/25/2014	16:35	Water	1	**4.8**	0.30 U	0.29 U	**0.49 I**	0.19 U	0.23 U
CRHE-DPT0349-053.0-20140925	9/25/2014	17:05	Water	1	**0.62 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0349-058.0-20140925	9/25/2014	17:32	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0350-033.0-20140926	9/26/2014	08:27	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0350-038.0-20140926	9/26/2014	08:51	Water	1	**13.0**	0.30 U	0.29 U	**1.6**	0.19 U	0.23 U
CRHE-DPT0350-043.0-20140926	9/27/2014	09:17	Water	10	**160**	3.0 U	2.9 U	**45**	1.9 U	2.3 U
CRHE-DPT0350-048.0-20140926	9/27/2014	09:41	Water	20	**280**	6.0 U	5.8 U	**100**	3.8 U	4.6 U
CRHE-DPT0350-053.0-20140926	9/27/2014	10:12	Water	1, 10	**260**	0.30 U	**2.1**	**13.0**	0.19 U	0.23 U
CRHE-DPT0350-058.0-20140926	9/27/2014	10:49	Water	1	**4.5**	0.30 U	0.29 U	**0.88** I	0.19 U	0.23 U
CRHE-DPT0351-033.0-20140926	9/27/2014	11:48	Water	1	**0.42 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0351-038.0-20140926	9/27/2014	12:20	Water	1	**35.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0351-043.0-20140926	9/27/2014	12:44	Water	1	**53.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0351-048.0-20140926	9/27/2014	13:09	Water	1	**50.6**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0351-053.0-20140926	9/27/2014	13:36	Water	1	**2.8**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0352-033.0-20140926	9/27/2014	14:28	Water	1, 10	**110**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0352-038.0-20140926	9/27/2014	14:50	Water	1	**73.3**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0352-043.0-20140926	9/27/2014	15:13	Water	1	**10.2**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0352-048.0-20140926	9/27/2014	15:32	Water	1	**11.4**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0352-053.0-20140926	9/27/2014	15:58	Water	1	**0.98 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0352-058.0-20140926	9/27/2014	16:22	Water	1	**0.44 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0353-028.0-20140929	9/29/2014	09:08	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0353-033.0-20140929	9/29/2014	09:37	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0353-038.0-20140929	9/29/2014	10:05	Water	1	**100**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0353-043.0-20140929	9/29/2014	10:35	Water	1	**8.4**	0.30 U	0.29 U	**0.25 I**	0.19 U	0.23 U
CRHE-DPT0353-048.0-20140929	9/29/2014	11:07	Water	1	**2.1**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0353-058.0-20140929	9/29/2014	11:31	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0343-053.0-20140929	9/29/2014	12:26	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0343-058.0-20140929	9/29/2014	13:01	Water	1	0.26 U	0.30 U	0.29 U	**0.23 I**	0.19 U	0.23 U
CRHE-DPT0354-033.0-20140929	10/3/2014	13:37	Water	1	**23.8**	0.35 U	0.32 U	**1.6**	**0.43 I**	0.36 U
CRHE-DPT0354-038.0-20140929	9/29/2014	14:04	Water	1	**22.4**	0.30 U	0.29 U	**0.93 I**	0.19 U	0.23 U
CRHE-DPT0354-043.0-20140929	9/29/2014	14:26	Water	5	**21**	1.5 U	1.5 U	**1.8 I**	0.95 U	1.2 U
CRHE-DPT0354-048.0-20140929	9/29/2014	15:02	Water	5	**55**	1.5 U	**3.7 I**	**230**	0.95 U	1.2 U
CRHE-DPT0354-053.0-20140929	9/29/2014	15:38	Water	1	**4.8**	0.30 U	0.29 U	**4.7**	0.19 U	0.23 U
CRHE-DPT0354-058.0-20140929	9/29/2014	16:06	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0355-033.0-20140929	9/29/2014	16:47	Water	1	**4.3**	0.30 U	0.29 U	**1.9**	0.19 U	0.23 U
CRHE-DPT0356-033.0-20140930	10/3/2014	08:48	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U
CRHE-DPT0356-038.0-20140930	10/3/2014	09:10	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U
CRHE-DPT0356-043.0-20140930	10/3/2014	09:41	Water	1	**64.0**	0.35 U	**2.0**	**1.4**	0.31 U	0.36 U
CRHE-DPT0356-048.0-20140930	10/3/2014	10:16	Water	1	**0.94 I**	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U
CRHE-DPT0356-053.0-20140930	10/3/2014	10:39	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U
CRHE-DPT0356-058.0-20140930	10/3/2014	11:04	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U
CRHE-DPT0357-033.0-20140930	10/3/2014	12:54	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U
CRHE-DPT0357-038.0-20140930	10/3/2014	13:15	Water	1	**2.5**	0.35 U	0.32 U	**0.74 I**	0.31 U	0.36 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0357-043.0-20140930	10/3/2014	13:49	Water	1	**90.0**	0.35 U	**1.3**	**17.6**	0.31 U	0.36 U
CRHE-DPT0357-048.0-20140930	10/3/2014	14:10	Water	1	**9.7**	0.35 U	0.32 U	**3.5**	0.31 U	0.36 U
CRHE-DPT0357-053.0-20140930	10/3/2014	15:31	Water	1	**2.2**	0.35 U	0.32 U	**3.1**	0.31 U	0.36 U
CRHE-DPT0357-058.0-20140930	10/3/2014	15:45	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-IDW197036-20140924	9/25/2014	17:50	Water	10	2.6 U	3.0 U	2.9 U	**2.8 I**	1.9 U	2.3 U
CRHE-IDW195315-20140924	9/25/2014	18:05	Water	10	2.6 U	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U
CRHE-IDW198326-20140926	9/27/2014	17:55	Water	10	2.6 U	3.0 U	2.9 U	2.2 U	1.9 U	2.3 U
CRHE-IDW198327-20140930	10/3/2014	14:46	Water	10	3.1 U	3.5 U	3.2 U	2.8 U	3.1 U	3.6 U
CRHE-IDW198328-20140930	10/3/2014	15:00	Water	10	3.1 U	3.5 U	3.2 U	2.8 U	3.1 U	3.6 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Method Blank Summary - KB1, KB2, KB3

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Method Blank KB3	9/22/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/23/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/24/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/24/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/25/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/25/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/26/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB3	9/26/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB1	9/27/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB1	9/29/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB2	10/3/2014	00:00	Water	1	0.31 U	0.35 U	0.32 U	0.28 U	0.31 U	0.36 U

Reporting units for waters are ug/L and for soils are mg/kg.

CHAIN-OF-CUSTODY RECORD

1/1

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CKHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	3092214 COMMENT / SAMPLE PRE FIX
DPT0340-33	9/22/14	0952			9/22/14	1615		GW	3	✓	12A,B
DPT0340-38		1018									13A,B
DPT0340-43		1042									14A,B
DPT0340-48		1111									15A,B
DPT0340-58		1136									16A,B
DPT0341-33		1256									17A,B
DPT0341-38		1320									18A,B
DPT0341-43		1342									19A,B
DPT0341-48		1411									20A,B
DPT0341-53		1446									21A,B

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations** CKHE
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 9/22/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

1 / 1

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS																	
Geosyntec	CRHE KSC, FL																	
SAMPLERS	CONTACT PERSON						BATCH # (Lab Use Only)											
SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260						PRESERVATION: C Chilled, H HCL, Ot Other (see Remarks)	COMMENT / SAMPLE PRE FIX: 30923 14
DPT 0341 - 58	9/23/14	0811			9/23/14	1850		GW	2	V							12A, B
DPT 0342 - 33		0843															13
DPT 0342 - 38		0903															14
DPT 0342 - 43		0927															15
DPT 0342 - 48		1037															16
DPT 0342 - 58		1101															17
DPT 0343 - 33		1200															18
DPT 0343 - 38		1221															19
DPT 0343 - 43		1244															20
DPT 0343 - 48		1740															21

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
				CRHE
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	
			9/23/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # 1B3

CLIENT NAME	PROJECT NAME & ADDRESS		
Geosyntec	CRTE KSC, FL		
SAMPLERS	CONTACT PERSON	BATCH # (Lab Use Only)	

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

3092414

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENT / SAMPLE PRE FIX
DPT0344-33	9/24/14	0910		✓	9/24/13	1400		GW	2	30A,B
DPT0344-38		0930				1400				31
DPT0344-43		0952				1400				32
DPT0344-48		1014				1400				33
DPT0344-53		1046				1400				34
DPT0344-58		1110				1400				35
DPT0345-33		1153				1400				36
DPT0345-38		1221				1400				37
DPT0345-43		1320				1400				38
DPT0345-48		1341				1400				39
DPT0345-53		1410				1650				40
DPT0345-58		1436								41
DPT0346-33		1524								42
DPT0346-38		1544								43
DPT0346-43		1605				1800				44

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 9/24/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRATE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS					COMMENT / SAMPLE PRE FIX
										5260					
DPT 0346 -48	9/24/14	1624		✓	9/24/14	1800		GW	2	✓					45A, B
DPT 0346 53	↓	1657		↓	↓	↓		↓	↓	↓					46
DPT 0346 58		1724													47
IDW 197036		1750													48
IDW 195315		1805													49

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 9/24/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

1/2

MOBILE UNIT # KB3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRHE KSC, FL
SAMPLERS	CONTACT PERSON
	BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 309251/4
DPT0347 - 28	9/25/14	0848			9/25/14	1335		GW	2	✓	30A, B
DPT0347 - 33		0908				1335					31
DPT0347 - 38		0924				1335					32
DPT0347 - 43		0943				1335					33
DPT0347 - 48		1013				1335					34
DPT0347 - 58		1034				1335					35
DPT0348 - 33		1120				1335					36
DPT0348 - 38		1152				1335					37
DPT0348 - 43		1221				1335					38
DPT0348 - 48		1247				1335					39
DPT0348 - 53		1310				1335					40
DPT0348 - 58		1334				1800					41
DPT0349 - 33		1528				1800					42
DPT0349 - 38		1551				1800					43
DPT0349 - 43		1611				1800					44

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
			9/25/14 1800

Remarks and Observations
CRHE

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services

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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB3

CLIENT NAME: GeoSyntec

PROJECT NAME & ADDRESS: CRHE LCSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 30925I4
DPT0349-48	9/25/14	1635			9/25/14	1800		GW	2	✓	45 A, B
DPT0349-53	↓	1705			↓	↓		↓	↓	↓	46
DPT0349-58	↓	1732			↓	↓		↓	↓	↓	47

Precleaned Containers / Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
				CRHE
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			9/25/14 1800	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/2

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Raleigh, NC 27607
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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	COMMENT / SAMPLE PRE FIX (30926/14)
DPT 350 - 33	9/26/14	0827			9/26/14	0925		GW	2	01 A,B
DPT 350 - 38		0851				0925				02 A,B
DPT 350 - 43		0917				0925				03 A,B
DPT 350 - 48		0941				1400				04
DPT 350 - 53		1012				1400				05
DPT 350 - 58		1045				1400				06
DPT 351 - 33		1148				1400				07
DPT 351 - 38		1220				1400				08
DPT 351 - 43		1244				1400				09
DPT 351 - 48		1309				1400				10
DPT 351 - 53		1336				1400				11
DPT 352 - 33		1428				1800				12
DPT 352 - 38		1450				1800				13
DPT 352 - 43		1513				1800				14
DPT 352 - 48		1532				1800				15

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*		Received by: *(Signature)*		**Remarks and Observations** CRHE
Relinquished by: *(Signature)*		Received by: *(Signature)* BH JB	9/26/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRH2 KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260					COMMENT / SAMPLE PRE FIX
DPT 352 - 53	9/26/14	1558			9/26/14	1800		GW	2	✓					14 A,B
DPT 352 - 58	1	1622			1	1		1	1	1					17 A,B
IDW 198326	1	1755			1	1		1	1	1					18 A,B

3092614

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
			9/26/14

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

1/1

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MOBILE UNIT # KB3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRTS KSC, FL

SAMPLERS

CONTACT PERSON

BATCH # (Lab Use Only)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	8260	COMMENT / SAMPLE PRE FIX 3092954
DPT0353-28	9/29/14	0908			9/29/14	1220		GW	2	✓	30 A,B
-33		0937				1220					31
-38		1005				1220					32
-43		1035				1220					33
-48		1107				1220					34
-58		1131		~~x~~		1220					35
DPT0343-53		~~1217~~	1226			1505					36
-58		1301				1505					37
DPT0354-33		1337				1505					38
-38		1404				1505					39
-43		1426				1505					40
-48		1502				1730					41
-53		1538				1730					42
-58		1606				1730					43
DPT0355-33		1647				1730					44

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 9/29/14

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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CHAIN-OF-CUSTODY RECORD

1 / 1

MOBILE UNIT # ICB 3

CLIENT NAME	PROJECT NAME & ADDRESS
Geosyntec	CRAE KSC, FL
SAMPLERS	CONTACT PERSON / BATCH # (Lab Use Only)

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID.\ NUMBER	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: 8260	COMMENT / SAMPLE PRE FIX: 30930I4
DPT0356-33	9/30/14	0848			9/30/14	1220		GW	2	✓	30A,B
DPT0356-38		0910				1220					31
DPT0356-43		0941				1220					32
DPT0356-48		1016				1220					33
DPT0356-53		1039				1220					34
DPT0356-58		1104				1220					35
DPT0357-33		1254				1430					36
DPT0357-38		1315				1430					37
DPT0357-43		1345				1430					38
DPT0357-48		1410				1610					39
DPT0357-53		1531				1610					40
DPT0357-58		1545				1610					41
IDW 198327		1446				1610					42
IDW 198328		1500				1610					43

	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Precleaned Containers Relinquished by: (Signature)				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time: 9/30/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

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November 19, 2014

Lane Dorman
Geosyntec Consultants
316 South Baylen Street, Suite 201
Pensacola, FL 32502

RE: NASA CRHE, KSC, FL - Final Data Report
KB Labs Project 14-166

Dear Mr. Dorman:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Included are a brief project narrative, data report narrative, tables listing quality control results, final analytical results, and sample chain-of-custody form.

KB Labs' mobile laboratories have been inspected by the FDOH Bureau of Laboratories and are NELAP Certified as of April 1, 2003. Our personnel, methodology, proficiency testing, and quality assurance requirements comply with the guidelines of Chapter 62-160 of the Florida Administrative Code and with the consensus standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our requirements for accuracy and precision under NELAC Standards.

If you have any questions, please do not hesitate to call me or Kelly Bergdoll, President of KB Labs, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Todd Romero
Director of Operations

"KB Labs is a small, woman-owned business enterprise."

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PROJECT NARRATIVE

Project Scope

From November 10 to 12, 2014, a total of 38 water samples were analyzed for Geosyntec Consultants at NASA CRHE, KSC, FL. The samples were analyzed for vinyl chloride, 1, 1-dichloroethene, cis- and trans-1, 2-dichloroethene, trichloroethene, and tetrachloroethene,

NELAP Certification

KB Mobile Labs Unit KB1: FDOH NELAP Certification Number E82815
KB Mobile Labs Unit KB2: FDOH NELAP Certification Number E82840

Analytical Procedure

All samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water or air (air samples) were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium. The components were then separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report and the results relate only to the actual samples received and analyzed in the laboratory. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Uncertainty of Reported Values

All measurement data presented in this report are subject to a degree of uncertainty and the degree of uncertainty varies with each compound of interest. KB Labs estimates the uncertainty of each measurement using a statistical evaluation of the standard deviation from the mean percent recovery of a number of trials of a given measurement. More specifically, KB Labs maintains historical percent recovery control limits at the 99% confidence level for each analyte of interest. These are calculated as $\pm$ 3 times the standard deviation from the mean of historical measurements of the percent recovery of

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spikes of the analytes of interest into actual and control sample matrices. For example, if the lower and upper percent recovery control limits for a specific analyte of interest have been determined to be 70 and 100 percent respectively, a reported value of 10.0 ug/L will be with 99% confidence 7.0 to 13.0 ug/L.For more information about KB Labs estimation of uncertainty, contact KB Labs' quality assurance officer and/or request a copy of KB Labs' SOP for determining measurement uncertainty.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds, which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

VOC Spike Recoveries – Table 2 lists the percent recovery results for matrix spike and laboratory control samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

DATA REPORT NARRATIVE

1. All sample data has been reviewed and, if required, updated in the Final Data Report for rounding and significant figures.

2. TCE result of 0.91 I ug/L for DPT0358-033.0 has been changed to 0.19 U ug/L.

3. Samples for this project were analyzed in 2 different labs, KB1 and KB3, while onsite. Each has a unique set of MDLs.

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates:11/10/14-11/12/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CCS 50	11/10/14	82	112	105	124	Pass	Pass	Pass	Pass
LCS 20	11/10/14	96	97	109	115	Pass	Pass	Pass	Pass
BLANK	11/10/14	82	101	104	125	Pass	Pass	Pass	Pass
CRHE-DPT0358-028.0	11/10/14	76	97	109	94	Pass	Pass	Pass	Pass
CRHE-DPT0358-033.0	11/10/14	88	108	106	125	Pass	Pass	Pass	Pass
CRHE-DPT0358-038.0 1:5	11/10/14	65	125	104	124	Pass	Pass	Pass	Pass
CRHE-DPT0358-043.0	11/10/14	94	106	99	115	Pass	Pass	Pass	Pass
CRHE-DPT0358-048.0	11/10/14	81	106	103	124	Pass	Pass	Pass	Pass
CRHE-DPT0358-053.0	11/10/14	83	95	108	129	Pass	Pass	Pass	Pass
CRHE-DPT0358-058.0	11/10/14	83	105	106	127	Pass	Pass	Pass	Pass
CRHE-DPT0358-058.0 MS	11/10/14	92	116	96	125	Pass	Pass	Pass	Pass
CRHE-DPT0358-058.0 MSD	11/10/14	85	105	110	133	Pass	Pass	Pass	Pass
CRHE-DPT0359-033.0	11/10/14	83	106	110	159	Pass	Pass	Pass	> UCL
CRHE-DPT0359-038.0	11/10/14	78	112	99	154	Pass	Pass	Pass	> UCL
BLANK/TUNE	11/11/14	100	98	102	103	Pass	Pass	Pass	Pass
CCS 20	11/11/14	105	100	95	101	Pass	Pass	Pass	Pass
LCS 20	11/11/14	106	101	97	102	Pass	Pass	Pass	Pass
BLANK	11/11/14	102	102	99	95	Pass	Pass	Pass	Pass
CRHE-DPT0359-043.0	11/11/14	113	98	90	103	Pass	Pass	Pass	Pass
CRHE-DPT0359-048.0	11/11/14	109	100	93	108	Pass	Pass	Pass	Pass
CRHE-DPT0359-055.0	11/11/14	108	98	90	108	Pass	Pass	Pass	Pass
CRHE-DPT0358-033.0 1:5	11/11/14	110	102	88	100	Pass	Pass	Pass	Pass
CRHE-DPT0360-058.0 1:10	11/11/14	116	103	86	107	Pass	Pass	Pass	Pass
CCS 20	11/11/14	107	103	98	94	Pass	Pass	Pass	Pass
BLANK	11/11/14	106	101	102	96	Pass	Pass	Pass	Pass
CRHE-DPT0359-058.0 1:5	11/11/14	115	106	91	88	Pass	Pass	Pass	Pass
CRHE-DPT0360-038.0 1:5	11/11/14	114	105	86	96	Pass	Pass	Pass	Pass
CRHE-DPT0360-043.0 1:5	11/11/14	105	100	90	93	Pass	Pass	Pass	Pass
CRHE-DPT0360-048.0 1:5	11/11/14	104	108	87	89	Pass	Pass	Pass	Pass
CRHE-DPT0360-053.0	11/11/14	109	103	86	96	Pass	Pass	Pass	Pass
CRHE-DPT0361-033.0	11/11/14	114	104	89	94	Pass	Pass	Pass	Pass
CCS 20	11/12/14	98	105	93	95	Pass	Pass	Pass	Pass
BLANK	11/12/14	110	105	95	96	Pass	Pass	Pass	Pass
CRHE-DPT0361-038.0	11/12/14	112	105	90	98	Pass	Pass	Pass	Pass
CRHE-DPT0361-043.0	11/12/14	114	106	86	102	Pass	Pass	Pass	Pass
CRHE-DPT0361-048.0	11/12/14	115	99	89	97	Pass	Pass	Pass	Pass
CRHE-DPT0361-053.0	11/12/14	111	105	88	99	Pass	Pass	Pass	Pass
CRHE-DPT0361-058.0 1:5	11/12/14	103	97	89	105	Pass	Pass	Pass	Pass

***Surrogate Compounds:**

S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:** 145-120
On-site Dates:11/10/14-11/12/14	**Client Project Manager**: Lane Dorman	**Matrix:** Water

Sample ID	Date of Analysis	Surrogate % Recovery				Surrogate Control Limits			
		S1*	S2*	S3*	S4*	S1*	S2*	S3*	S4*
CRHE-DPT0362-033.0 1:5	11/12/14	106	99	90	107	Pass	Pass	Pass	Pass
CRHE-DPT0362-038.0	11/12/14	110	102	91	99	Pass	Pass	Pass	Pass
CRHE-DPT0362-043.0	11/12/14	111	99	91	101	Pass	Pass	Pass	Pass
CRHE-DPT0362-048.0	11/12/14	110	101	88	107	Pass	Pass	Pass	Pass
CRHE-DPT0362-053.0	11/12/14	117	105	86	91	Pass	Pass	Pass	Pass
CRHE-DPT0362-058.0	11/12/14	110	89	91	102	Pass	Pass	Pass	Pass
CCS 20	11/12/14	101	103	99	98	Pass	Pass	Pass	Pass
LCS 20	11/12/14	91	92	106	100	Pass	Pass	Pass	Pass
BLANK	11/12/14	93	94	104	108	Pass	Pass	Pass	Pass
CRHE-DPT0363-033.0	11/12/14	95	90	100	108	Pass	Pass	Pass	Pass
CRHE-DPT0363-038.0	11/12/14	104	102	101	110	Pass	Pass	Pass	Pass
CRHE-DPT0363-043.0	11/12/14	101	98	100	110	Pass	Pass	Pass	Pass
CRHE-DPT0363-048.0	11/12/14	100	97	99	112	Pass	Pass	Pass	Pass
CRHE-DPT0363-053.0 1:2	11/12/14	97	92	102	113	Pass	Pass	Pass	Pass
CRHE-DPT0363-058.0 1:5	11/12/14	97	96	101	114	Pass	Pass	Pass	Pass
CRHE-IDW-188851	11/12/14	42	96	100	118	< LCL	Pass	Pass	Pass
CRHE-IDW-188852	11/12/14	0	95	99	113	< LCL	Pass	Pass	Pass
CRHE-IDW-188852 MS	11/12/14	9	94	99	102	< LCL	Pass	Pass	Pass
CRHE-IDW-188852 MSD	11/12/14	8	100	93	97	< LCL	Pass	Pass	Pass
CRHE-DPT0362-043.0 1:10	11/12/14	94	91	96	120	Pass	Pass	Pass	Pass
CRHE-DPT0362-048.0 1:20	11/12/14	99	93	96	123	Pass	Pass	Pass	Pass
CCS 20	11/12/14	100	106	94	105	Pass	Pass	Pass	Pass

Comments: Although some surrogates may be out of the control percent recovery range, other supporting QC, such as matrix spikes, matrix spike duplicates, method blanks, and laboratory control samples, are performed by KB Labs to further validate reported data. IDW samples affect first surrogate.

***Surrogate Compounds:**
S1 = Dibromofluoromethane (63% - 142%)
S2 = 1,2- Dichloroethane-D4 (68% - 136%)
S3 = Toluene-D8 (76% - 124%)
S4 = 4-Bromofluorobenzene (70% - 133%)

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Geosyntec Consultants	**Driller/Sampler**: Geosyntec Consultants	**Analyst:** Bob Schock, Tuan Luu
Site: NASA CRHE	**KB Labs Project Manager:** Kelly Bergdoll	**KB Labs Project No.:** 14-120
Onsite Dates: 11/10/14-11/12/14	**Client Project Manager:** Lane Dorman	**Matrix**: Water

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

Samples: CRHE-DPT0340-058.0 **Date of Analysis:** 11/10/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	141	131	7	Pass	Pass	Pass
1,1-Dichloroethene	30	165	20	118	129	9	Pass	Pass	Pass
Trans-1,2-Dichloroethene	37	155	20	139	131	6	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	114	100	13	Pass	Pass	Pass
Trichloroethene	52	143	20	99	91	8	Pass	Pass	Pass
Tetrachloroethene	50	144	20	80	90	12	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Samples: CRHE-IDW-188852 **Date of Analysis:** 11/12/2014

Matrix Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower	Upper	RPD	MS	MSD	RPD	MS	MSD	RPD
Vinyl Chloride	18	177	20	116	181	44	Pass	> UCL	> RPDL
1,1-Dichloroethene	30	165	20	177	180	2	> UCL	> UCL	Pass
Trans-1,2-Dichloroethene	37	155	20	66	66	1	Pass	Pass	Pass
Cis-1,2-Dichloroethene	29	163	20	95	92	3	Pass	Pass	Pass
Trichloroethene	52	143	20	203	189	7	> UCL	> UCL	Pass
Tetrachloroethene	50	144	20	82	70	16	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

Laboratory Control Spikes (LCS):

Samples: LCS 1 **Date of Analysis:** 11/10/2014
LCS 2 11/11/2014
LCS 3 11/12/2014

Spike Compounds	Control Limits			Percent Recoveries			Control Limit Checks		
	Lower		Upper	LCS#1	LCS#2	LCS#3	LCS#1	LCS#2	LCS#3
Vinyl Chloride	23	to	168	104	96	124	Pass	Pass	Pass
1,1-Dichloroethene	39	to	161	95	102	128	Pass	Pass	Pass
Trans-1,2-Dichloroethene	40	to	153	100	107	70	Pass	Pass	Pass
Cis-1,2-Dichloroethene	51	to	143	89	106	91	Pass	Pass	Pass
Trichloroethene	55	to	145	104	105	116	Pass	Pass	Pass
Tetrachloroethene	53	to	147	103	105	90	Pass	Pass	Pass

Note: Control Limits are based on a semi-annual historical evaluation of mobile unit and method guidelines.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0358-028.0-20141110	11/10/2014	10:07	Water	1	**210**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0358-033.0-20141110	11/10/2014	10:21	Water	1, 5	**120**	0.30 U	0.29 U	**1.5**	0.19 U	0.23 U
CRHE-DPT0358-038.0-20141110	11/10/2014	10:39	Water	5	**3.3 I**	1.5 U	1.5 U	1.1 U	0.95 U	1.2 U
CRHE-DPT0358-043.0-20141110	11/10/2014	10:55	Water	1	**26.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0358-048.0-20141110	11/10/2014	11:11	Water	1	**12.9**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0358-053.0-20141110	11/10/2014	11:35	Water	1	**3.0**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0358-058.0-20141110	11/10/2014	11:52	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0359-033.0-20141110	11/10/2014	13:55	Water	1	**131**	0.30 U	**3.1**	**20.0**	0.19 U	0.23 U
CRHE-DPT0359-038.0-20141110	11/10/2014	14:09	Water	1	**0.45 I**	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
CRHE-DPT0359-043.0-20141110	11/11/2014	14:23	Water	1	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.23 U
CRHE-DPT0359-048.0-20141110	11/11/2014	14:39	Water	1	**0.91 I**	0.15 U	0.16 U	**0.46 I**	0.17 U	0.23 U
CRHE-DPT0359-053.0-20141110	11/11/2014	14:54	Water	1	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.23 U
CRHE-DPT0359-058.0-20141111	11/11/2014	07:48	Water	5	0.80 U	0.75 U	0.80 U	0.80 U	0.85 U	1.2 U
CRHE-DPT0360-038.0-20141111	11/11/2014	09:38	Water	5	**3.8 I**	0.75 U	0.80 U	**3.4 I**	0.85 U	1.2 U
CRHE-DPT0360-043.0-20141111	11/11/2014	09:51	Water	5	**47**	0.75 U	0.80 U	**6.5**	0.85 U	1.2 U
CRHE-DPT0360-048.0-20141111	11/11/2014	10:06	Water	5	**130**	0.75 U	**1.3 I**	**2.4 I**	0.85 U	1.2 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0360-053.0-20141111	11/11/2014	10:28	Water	1	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.23 U
CRHE-DPT0360-058.0-20141111	11/11/2014	10:48	Water	10	1.6 U	1.5 U	1.6 U	1.6 U	1.7 U	2.3 U
CRHE-DPT0361-033.0-20141111	11/11/2014	13:06	Water	1	**0.56 I**	0.15 U	0.16 U	**1.7**	0.17 U	0.23 U
CRHE-DPT0361-038.0-20141111	11/12/2014	13:19	Water	1	**0.66 I**	0.15 U	0.16 U	**3.0**	0.17 U	0.23 U
CRHE-DPT0361-043.0-20141111	11/12/2014	13:32	Water	1	**1.2**	0.15 U	0.16 U	**8.0**	0.17 U	0.23 U
CRHE-DPT0361-048.0-20141111	11/12/2014	13:48	Water	1	**1.2**	0.15 U	0.16 U	**7.2**	0.17 U	0.23 U
CRHE-DPT0361-053.0-20141111	11/12/2014	14:05	Water	1	**7.1**	0.15 U	0.16 U	**7.9**	0.17 U	0.23 U
CRHE-DPT0361-058.0-20141111	11/12/2014	14:22	Water	5	0.80 U	0.75 U	0.80 U	0.80 U	0.85 U	1.2 U
CRHE-DPT0362-033.0-20141111	11/12/2014	16:04	Water	5	0.80 U	0.75 U	0.80 U	0.80 U	0.85 U	1.2 U
CRHE-DPT0362-038.0-20141111	11/12/2014	16:18	Water	5	**2.0 I**	0.75 U	0.80 U	**2.2 I**	0.85 U	1.2 U
CRHE-DPT0362-043.0-20141111	11/12/2014	16:33	Water	1, 10	**770**	**0.33 I**	**13.5**	**130**	**3.4**	0.23 U
CRHE-DPT0362-048.0-20141112	11/12/2014	07:42	Water	1, 20	**1500**	**2.5**	**59.6**	**1100**	**27.1**	0.23 U
CRHE-DPT0362-053.0-20141112	11/12/2014	07:51	Water	1	**5.0**	0.15 U	**0.56 I**	**8.7**	0.17 U	0.23 U
CRHE-DPT0362-058.0-20141112	11/12/2014	08:11	Water	5	**270**	0.75 U	**12**	**300**	0.85 U	1.2 U
CRHE-DPT0363-033.0-20141112	11/12/2014	10:11	Water	1	0.26 U	0.30 U	0.29 U	**0.53 I**	0.19 U	0.23 U
CRHE-DPT0363-038.0-20141112	11/12/2014	10:25	Water	1	0.26 U	0.30 U	0.29 U	**1.5**	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

Final Data Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
CRHE-DPT0363-043.0-20141112	11/12/2014	10:39	Water	1	**5.2**	0.30 U	0.29 U	**3.4**	0.19 U	0.23 U
CRHE-DPT0363-048.0-20141112	11/12/2014	10:55	Water	1	**1.2**	0.30 U	0.29 U	**0.30 I**	0.19 U	0.23 U
CRHE-DPT0363-053.0-20141112	11/12/2014	11:11	Water	2	0.52 U	0.60 U	0.58 U	0.44 U	0.38 U	0.46 U
CRHE-DPT0363-058.0-20141112	11/12/2014	11:31	Water	5	1.3 U	1.5 U	1.5 U	1.1 U	0.95 U	1.2 U
CRHE-IDW188851-20141112	11/12/2014	12:45	Water	1	**2.4**	0.30 U	0.29 U	**1.5**	0.19 U	0.23 U
CRHE-IDW188852-20141112	11/12/2014	12:50	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

KB LABS, INC.

MB Summary Report

CRHE

KSC, FL

Prepared for: Geosyntec Consultants

Sample ID	Analysis Date	Sample Time	Matrix	Dilution Factor	Vinyl chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene
Method Blank KB3	11/10/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U
Method Blank KB1	11/11/2014	00:00	Water	1	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.23 U
Method Blank KB1	11/12/2014	00:00	Water	1	0.16 U	0.15 U	0.16 U	0.16 U	0.17 U	0.23 U
Method Blank KB3	11/12/2014	00:00	Water	1	0.26 U	0.30 U	0.29 U	0.22 U	0.19 U	0.23 U

Reporting units for waters are ug/L and for soils are mg/kg.

Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

CHAIN-OF-CUSTODY RECORD

1 of 1

MOBILE UNIT # KB-3

| CLIENT NAME | PROJECT NAME & ADDRESS | | |

CHAIN-OF-CUSTODY RECORD

KB LABS
Mobile Laboratory Services

6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073 · FAX (352) 378-6491

6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

MOBILE UNIT # KB-3

CLIENT NAME: Geosyntec
PROJECT NAME & ADDRESS: CRHE
SAMPLERS: Dave
CONTACT PERSON:
BATCH # (Lab Use Only):

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: Target VOCs

SAMPLE FIELD ID.\ NUMBER -20141111	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS	Target VOCs	COMMENT / SAMPLE PRE FIX -3111114
CRHE MPT-0359-058.0	11/11/14	0748		X	11/11/14			W	2	X	01 A,B
-0360-038.0		0938									02 AB
-043.0		0951									03 AB
-048.0		1006									04 AB
-053.0		1028									05 AB
-058.0		1048									06 AB
-0361-033.0		1306									07 AB
-038.0		1319									08 AB
-043.0		1332									09 AB
-048.0		1348									10 AB
-053.0		1405									11 AB
-058.0		1422									12 AB
-0362-033.0		1604									13 AB
-038.0		1618									14 AB
-043.0		1633									15 AB

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time

Remarks and Observations

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

KB LABS
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6701 Conference Drive
Raleigh, NC 27607
TEL (352) 538-6507

CHAIN-OF-CUSTODY RECORD

MOBILE UNIT # KB-3

CLIENT NAME: Geosyntec

PROJECT NAME & ADDRESS: CRHE

SAMPLERS: Dave Sizemore

CONTACT PERSON:

BATCH # (Lab Use Only):

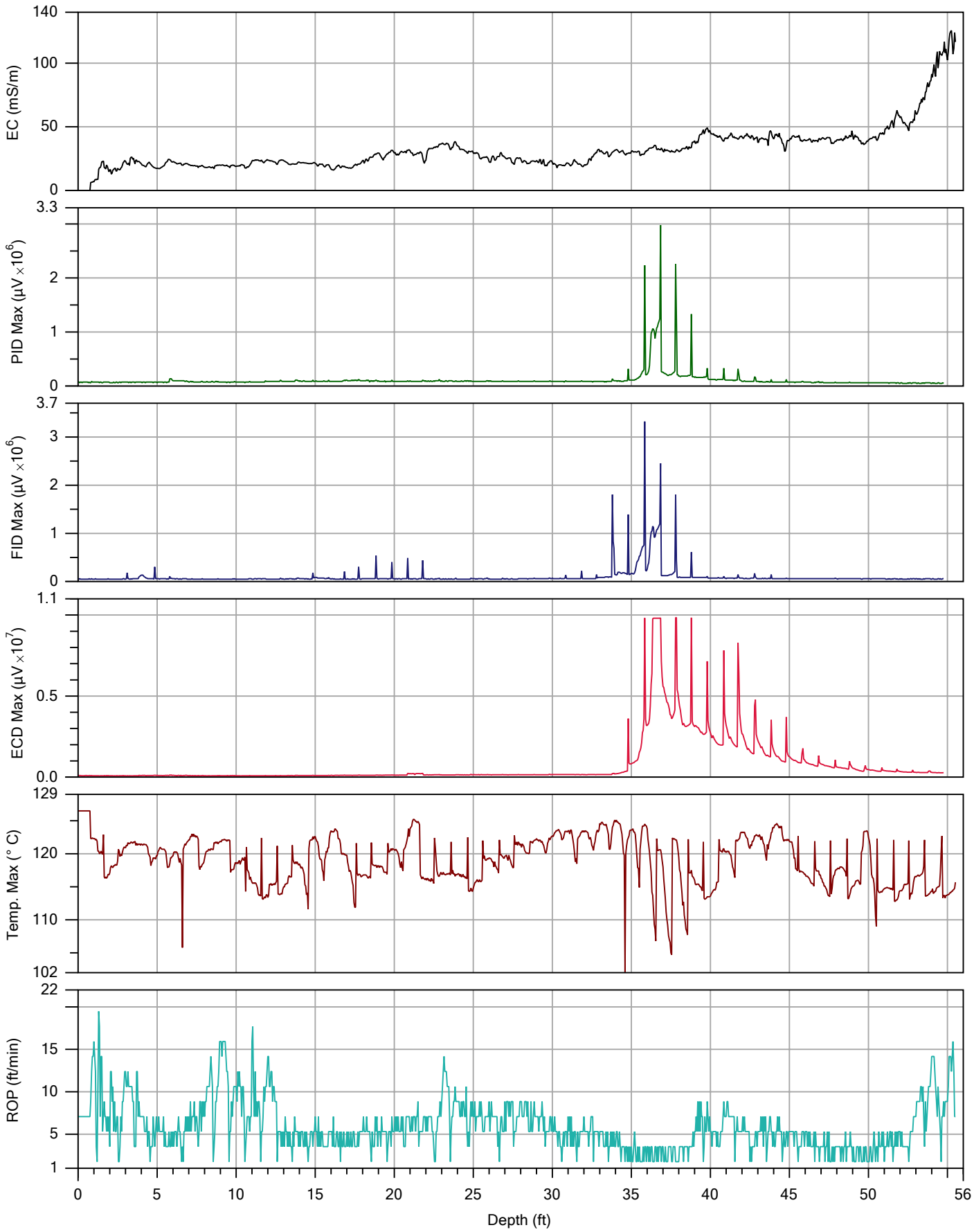
PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

SAMPLE FIELD ID.\ NUMBER -20141112	DATE SAMPLED	TIME SAMPLED	COMP.	GRAB	DATE REC'D	TIME REC'D	STATION LOCATION / No.	SAMPLE MATRIX	NUMBER OF CONTAINERS						COMMENT / SAMPLE PRE FIX -3111214
CRHE APT-0362-048.0	11/12/14	0732		X	11/12/14			W	2	X					01 AB
-053.0		0751													02 AB
-058.0		0811													03 AB
0363-033.0		1011													04 AB
-038.0		1025													05 AB
-043.0		1039													06 AB
-048.0		1055													07 AB
-053.0		1111													08 AB
-058.0		1131													09 AB
IDW-188851		1245													10 AB
188852		1250													11 AB

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	**Remarks and Observations**
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time 11/12/14	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas



		File: MIP001.DAT
Company: KB Labs	Operator: Brad Weichert	Date: 2/12/2010
Project ID: NASA KSC CRHE	Client: Geosyntec	Location:

TESTS BYPASSED

01.INF

SITE INFORMATION -- DIRECT IMAGE MIP PROBE

DATA FILE FORMAT:
(FT) (mS/M) (FT/MIN) (T MIN) (T MAX) (PSI) (M) (M/MIN) (KPA)
GAS FILE FORMAT:
D1MIN D1MAX D2MIN D2MAX D3MIN D3MAX D4MIN D4MAX

UNITS: ENGLISH
PROBE AND ARRAY: MP6510 MIP PROBE
80 INCH STRING POT USED
LOG START TIME: Fri Feb 12 2010 12:18

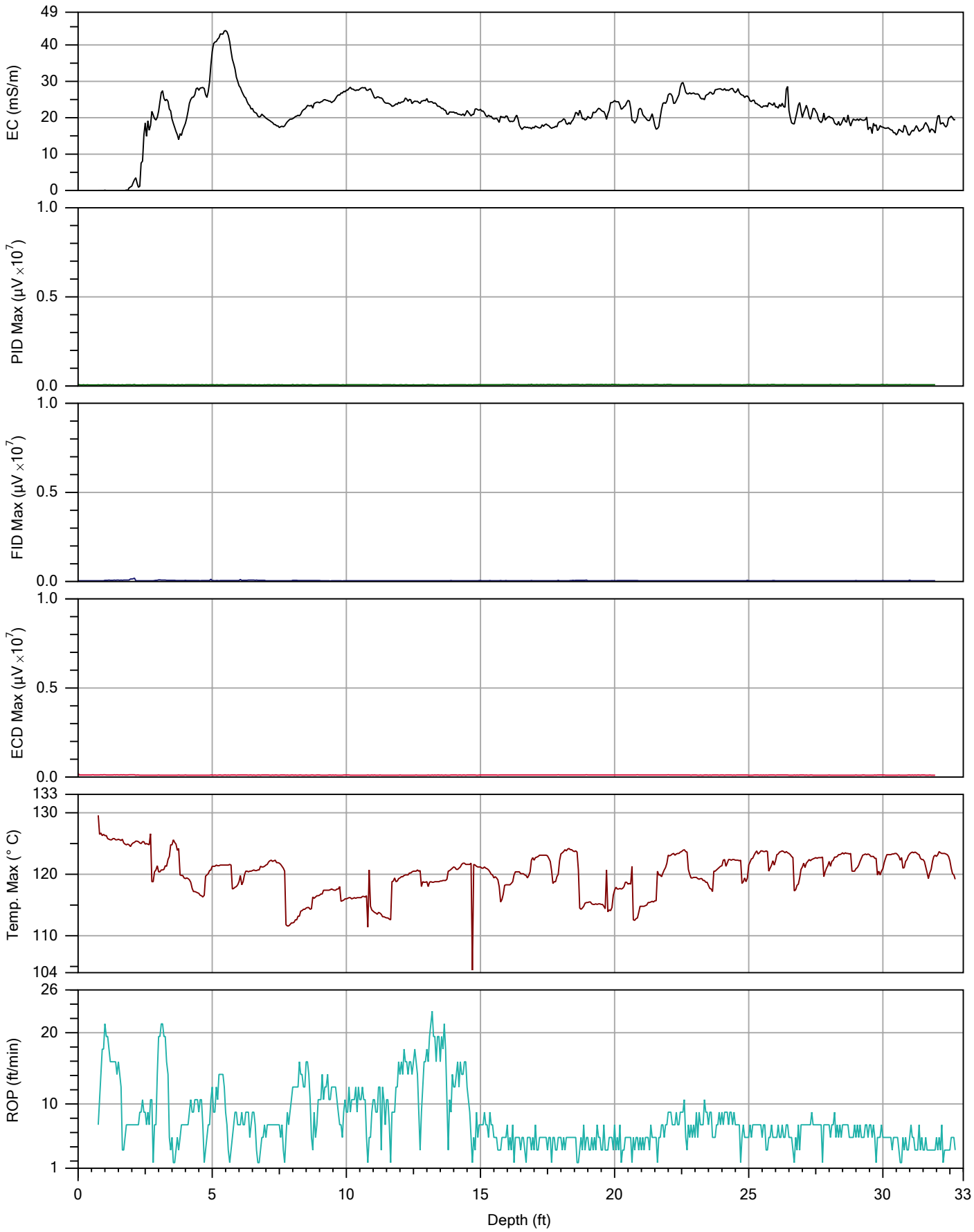
ATTENUATION CHANGES

DEPTH	DET1	DET2	DET3	DET4
0.00	1	1	1	1
0.00	10	1	1	1
0.00	10	10	1	1
0.00	10	10	10	1

LOG END DEPTH: 54.75 FEET 16.688 METERS

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.00 METERS; 0.00 FEET
UNABLE TO ESTABLISH A FIX

LOG END TIME: Fri Feb 12 2010 13:11



		File: MIP002.DAT
Company: KB Labs	Operator: Brad Weichert	Date: 2/12/2010
Project ID: NASA KSC CRHE	Client: Geosyntec	Location:

TESTS BYPASSED

02.INF

SITE INFORMATION -- DIRECT IMAGE MIP PROBE

DATA FILE FORMAT:
(FT) (mS/M) (FT/MIN) (T MIN) (T MAX) (PSI) (M) (M/MIN) (KPA)
GAS FILE FORMAT:
D1MIN D1MAX D2MIN D2MAX D3MIN D3MAX D4MIN D4MAX

UNITS: ENGLISH
PROBE AND ARRAY: MP6510 MIP PROBE
80 INCH STRING POT USED
LOG START TIME: Fri Feb 12 2010 14:04

ATTENUATION CHANGES

DEPTH	DET1	DET2	DET3	DET4
0.00	1	1	1	1
0.00	10	1	1	1
0.00	10	10	1	1
0.00	10	10	10	1

LOG END DEPTH: 31.95 FEET 9.738 METERS

LATITUDE: 0.000000000
LONGITUDE: 0.000000000
ELEVATION: 0.00 METERS; 0.00 FEET
UNABLE TO ESTABLISH A FIX

LOG END TIME: Fri Feb 12 2010 14:45

April 05, 2012 Service Request No: J1201360

Ms. Jill Johnson
Geosyntec Consultants
9515 Holsberry Road
Suite A
Pensacola, FL 32534

Laboratory Results for: KSC CRHE/FR1681

Dear Ms. Johnson:

Enclosed are the results of the sample(s) submitted to our laboratory on March 22, 2012. For your reference, these analyses have been assigned our service request number **J1201360**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. If required, the laboratory can provide uncertainty measurements for each method employed in sample analysis; this uncertainty measurement would be generated using method validation studies and the laboratory's quality control data.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX; Maine, #2011006; DoD #66206.

Columbia Analytical Services℠
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Part of the ALS Group A Campbell Brothers Limited Company
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Non CLP Tier III (w/o Raw Data)

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This report contains a total of 283 pages

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J1201360
Project:	KSC CRHE	**Date Received:**	3/22/12
Sample Matrix:	Water/Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III data deliverables including validation summary forms. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Twenty-nine water samples and one trip blank were received for analysis at Columbia Analytical Services on 3/22/12. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq$6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260B: The upper control criterion was exceeded for the following analyte in Laboratory Control Samples (LCS) JWG1200321-1 and JWG1200333-3: Isopropylbenzene. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

General Chemistry Analyses:

No significant data anomalies were noted with this analysis.

Approved by_____ Date 4/5/12

Client: Geosyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1201360-001	CRHE-MW0032-045.0-03192012	3/19/12	11:00
J1201360-002	CRHE-MW0030-010.0-03192012	3/19/12	12:05
J1201360-003	CRHE-MW0023-065.0-03192012	3/19/12	14:40
J1201360-004	CRHE-MW0031-045.0-03192012	3/19/12	15:25
J1201360-005	CRHE-IW0020I-045.0-03192012	3/19/12	16:40
J1201360-006	CRHE-MW0039-030.0-03192012	3/19/12	17:39
J1201360-007	CRHE-MW0038-010.0-03192012	3/19/12	18:10
J1201360-008	EB01-03192012	3/19/12	15:30
J1201360-009	CRHE-IW0015I-040.0-03192012	3/19/12	18:10
J1201360-010	CRHE-MW0034-038.5-03202012	3/20/12	09:37
J1201360-011	CRHE-IW0019I-040.0-03202012	3/20/12	09:40
J1201360-012	CRHE-MW0033-048.5-03202012	3/20/12	10:17
J1201360-013	CRHE-IW0021I-045.0-03202012	3/20/12	11:23
J1201360-014	CRHE-MW0035-045.0-03202012	3/20/12	14:11
J1201360-015	CRHE-MW0028-040.0-03202012	3/20/12	14:20
J1201360-016	CRHE-MW0037-030.0-03202012	3/20/12	14:41
J1201360-017	CRHE-IW0017I-030.0-03202012	3/20/12	15:10
J1201360-018	CRHE-IW0014I-040.0-03212012	3/21/12	09:05
J1201360-019	CRHE-MW0029-045.0-03212012	3/21/12	11:00
J1201360-020	CRHE-MW0026-035.0-03212012	3/21/12	12:00
J1201360-021	CRHE-MW0022-065.0-03212012	3/21/12	15:05
J1201360-022	CRHE-MW0027-045.0-03212012	3/21/12	15:45
J1201360-023	CRHE-MW0024-010.0-03212012	3/21/12	17:50
J1201360-024	CRHE-MW0025-030.0-03212012	3/21/12	18:30
J1201360-025	CRHE-188849-IDW-03212012	3/21/12	16:15
J1201360-026	CRHE-188797-IDW-03212012	3/21/12	16:40
J1201360-027	CRHE-188842-IDW-03212012	3/21/12	16:45
J1201360-028	CRHE-188838-IDW-03212012	3/21/12	17:00
J1201360-029	Trip Blank	3/19/12	00:00
J1201360-030	CHRE-MW0036-010.0-03202012	3/20/12	15:21

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Columbia Analytical Services

Chain of Custody Documentation

9143 Philips Highway, Suite 200
Jacksonville, Florida 32256
Phone: (904) 739-2277 Fax (904) 739-2011
www.caslab.com

Columbia Analytical Services

www.caslab.com

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200, Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011

Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To: Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. Other

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	8260B (Full List VOC)	REMARKS
CRHE-MW0022-065.0-03212012		3/21/2012	1505	W	3		X	
CRHE-MW0023-065.0-03192012		3/19/2012	1440	W	3		X	
CRHE-MW0024-010.0-03212012		3/21/2012	1750	W	3		X	
CRHE-MW0025-030.0-03212012		3/21/2012	1830	W	3		X	
CRHE-MW0026-035.0-03212012		3/21/2012	1200	W	3		X	
CRHE-MW0027-045.0-03212012		3/21/2012	1545	W	3		X	
CRHE-MW0028-040.0-03202012		3/20/2012	1420	W	3		X	
CRHE-MW0029-045.0-03212012		3/21/2012	1100	W	3		X	
CRHE-MW0030-010.0-03192012		3/19/2012	1205	W	3		X	
CRHE-MW0031-045.0-03192012		3/19/2012	1525	W	3		X	

Special Instructions/Comments:

W = Water

NASA RIS KEDD → Data Deliverable

3.0°C F71

TURNAROUND REQUIREMENTS

RUSH (SURCHARGES APPLY)

1 STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

I. Results Only

II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

III. Results + QC and Calibration Summaries

IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P O #

Bill to: Geosyntec

316 S. Baylen Street Ste. 201

Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Geosyntec	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Lauren Petty	Firm: CAS/ALS	Firm	Firm	Firm	Firm
Date/Time: 03/22/12/0530	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Columbia Analytical Services

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011 Page 2 of 3

Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn Acetate; 6. MeOH; 7. NaHSO4; 8. Other

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	8260B (Full List VOC	REMARKS
CRHE-MW0032-045.0-03192012		3/19/2012	1100	W			X	
CRHE-MW0033-048 5-03202012		3/20/2012	1017	W			X	
CRHE-MW0034-038 5-03202012		3/20/2012	0937	W			X	
CRHE-MW0035-045 0-03202012		3/20/2012	1411	W			X	
CRHE-MW0036-010 0-03202012		3/20/2012	1521	W			X	
CRHE-MW0037-030.0-03202012		3/20/2012	1441	W			X	
CRHE-MW0038-010 0-03192012		3/19/2012	1810	W			X	
CRHE-MW0039-030 0-03192012		3/19/2012	1739	W			X	
CRHE-MW0014I-040 0-03212012		3/21/2012	0905	W			X	
CRHE-IW0015I-040 0-03192012		3/19/2012	1810	W			X	

Special Instructions/Comments:

W = Water

Data Deliverable → NASA RIS KEDD

3.0 c T71

TURNAROUND REQUIREMENTS

[ ] RUSH (SURCHARGES APPLY)

[X] STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

[ ] I. Results Only

[ ] II. Results + QC Summaries

[ ] III. Results + QC and Calibration Summaries

[ ] IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION

P.O. #

Bill to Geosyntec

316 S. Baylen Street Ste. 201

Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Lauren Petty	Printed Name: Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS (ALS)	Firm	Firm	Firm	Firm
Date/Time: 3/22/12 1253	Date/Time: 3.22.12 0930	Date/Time	Date/Time	Date/Time	Date/Time

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011 Page 3 of 3

Project Name: KSC-CRHE	Project Number: FR1681/17*4
Report To: Jill Johnson jjohnson@geosyntec.com	Report CC:
Company/Address: 316 S. Baylen Street, Suite 201 Pensacola, FL 32502	
Phone #: 850-477-6542	FAX #: N/A
Sampler's Signature:	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	8260B (Full List VOC	8260B (Full List VOC	8260B (Full List VOC	REMARKS
Preservative						1	0	6	
CRHE-IW0017I-030 0-03202012		3/20/2012	1510	W	3	X			
CRHE-IW0019I-040 0-03202012		3/20/2012	0940	W	3	X			
CRHE-IW0020I-045 0-03192012		3/19/2012	1640	W	3	X			
CRHE-IW0021I-045 0-03202012		3/20/2012	1123	W	3	X			
EB01-03192012		3/19/2012	1530	W	3	X			
CRHE-188849-IDW-03212012		3/21/2012	1615	S	4		3	1	
CRHE-188797-IDW-03212012		3/21/2012	1640	S	4		3	1	
CRHE-188842-IDW-03212012		3/21/2012	1645	S	4		3	1	
CRHE-188838-IDW-03212012		3/21/2012	1700	S	4		3	1	
Trip Blank		Lab Provided			2	X			

Preservative Key: 0 None; 1 HCL; 2 HNO3; 3 H2SO4; 4 NaOH; 5 Zn Acetate; 6 MeOH; 7 NaHSO4; 8. Other

Special Instructions/Comments:

W = Water
S = Soil

NASA RISKDD → Data Deliverable
3.0°C TM

TURNAROUND REQUIREMENTS

RUSH (SURCHARGES APPLY)

STANDARD

PROJECT REQUIRED TAT (DATE)

REQUESTED REPORT DATE

REPORT REQUIREMENTS

I. Results Only

II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

III. Results + QC and Calibration Summaries

IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. #

Bill to: Geosyntec
316 S. Baylen Street Ste. 201
Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Lauren Petty	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS LAS	Firm	Firm	Firm	Firm
Date/Time: 3/22/12/0530	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 1 OF 3

SR # J1201360
CAS Contact

Project Name: KSC-CRHE	Project Number: FR1681
Project Manager: Bill Johnson	Email Address: bjohnson@grosyntec.com
Company/Address: 316 S. Baylen Street, Suite 201, Pensacola, FL 32502	
Phone #: 850-477-6547	FAX#: 850-477-6707
Sampler's Signature: [signature]	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and [redacted])

PRESERVATIVE: HCl

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	6200 (VOH)
CRHE-MW0032-03192012		3/19/12	1100	W	3	✓
CRHE-MW0030-03192012		3/19/12	1205			
CRHE-MW0023-03192012			1440			
CRHE-MW0031-03192012			1525			
CRHE-MW0020I-03192012			1640			
CRHE-MW0039-03192012			1739			
CRHE-MW0036-03192012			1810			
EB01-03192012			1530			✓
CRHE-MW0015I-03192012		3/19/12	1910			
CRHE-MW0034-03202012		3/20/12	0937			

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

W= Water

Will email Report Requirements 3/22.

See QAPP ☐ 3.0°C T71

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE: _____
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO: Grosyntec
316 S Baylen St, Ste 201
Pensacola, FL 32502

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature [signature]	Signature	Signature	Signature	Signature
Printed Name	Printed Name C Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm CAS/ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 2 OF 3

SR # 31201360

CAS Contact

Project Name: KSC - CRHE	Project Number: FR1681
Project Manager: Jill Johnson	Email Address: JJohnson@geosyntec.com
Company/Address: 316 S. Baylen Street, Ste 201, Pensacola, FL 32502	
Phone #: 850-477-6547	FAX#: 850-477-6707
Sampler's Signature:	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number a [redacted]

PRESERVATIVE: 1

NUMBER OF CONTAINERS

8260 (VOA)

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260 (VOA)	REMARKS/ ALTERNATE DESCRIPTION
CRHE-IW0019I-03202012		3/20/12	0940	W	3	X	
CRHE-MW0033-03202012		"	1017	"	"	"	
CRHE-~~MW~~IW0021I-03202012			1123				
CRHE-MW0035-03202012			1411				
CRHE-MW0028-03202012			1420				
CRHE-MW0037-03202012			1441				
CRHE-IW0017I-03202012			1570				
CRHE-IW0014I-03202012		3/21/12	0905				
CRHE-MW0029-03202012			1100				
CRHE-MW0026-03212012			1200				

SPECIAL INSTRUCTIONS/COMMENTS

WE Water

See QAPP ☐ 3.0 °C T71

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

X STANDARD

REQUESTED FAX DATE: _____

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO: SE pay

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
2					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: CAS/ACS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 3 OF 3

SR # 5120360
CAS Contact

Project Name: KSC - CRHE	Project Number: FR11681
Project Manager: Jill Johnson	Email Address: JJohnson@geosyntec.com
Company/Address: 316 S. Baylen Street Ste. 201, Pensacola, FL 32502	
Phone #: 805-477-6547	FAX#: 850-477-6707
Sampler's Signature	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 | 0 | 6

NUMBER OF CONTAINERS

8260 (VOA)
8260 (VOA)
8260 (VOA)

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX					
CRHE-MW0022-032120 12		3/21/12	1505	W	3	X			
CRHE-MW0027-032120 12			1545						
CRHE-MW0024-032120 12			1750						
CRHE-MW0025-032120 12			~~1825~~ 1830						
~~CRHE-IDW-188849 MP~~				~~SP~~					
CRHE-188849-IDW-032120 12			1615	S	4		3	1	
CRHE-188797-IDW-032120 12			1640				3	1	
CRHE-188842-IDW-032120 12			1645				3	1	
CRHE-188838-IDW-032120 12			1700				3	1	
TRIP Blank		LAB Provided		W	2	2			

SPECIAL INSTRUCTIONS/COMMENTS

CRHE-MW0036-032020 12 3/20/12 1521 W 3

W = Water

S = Soil

* Added per client SL 3/23/12

3.0°C T71

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE:
REQUESTED REPORT DATE:

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO: See pg 1

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
1 3					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm CAS/ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 3.22.12 0930	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services™

Cooler Receipt Form

Client: Geosyntec Service Request #: J1201360

Project: KSC - CRHE

Cooler received on 3.22.12 (Lab 3.23.12) and opened on 3.22.12 by GB

COURIER: CAS UPS FEDEX (Client) Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	(Yes)	No					
	If yes, how many and where?	#: 1 (on lid)	other					
2	Were seals intact and signature and date correct?	(Yes)	No	N/A				
3	Were custody papers properly filled out?	(Yes)	No	N/A				
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	3.0						
5	Thermometer ID	IR1						
6	Temperature Blank Present?	(Yes)	No					
7	Were Ice or Ice Packs present	(Ice)	Ice Packs	No				
8	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A				
9	Type of packing material present	Netting	(Vial Holder)	(Bubble Wrap)				
		Paper	Styrofoam	Other	N/A			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A				
11	Did all bottle labels and tags agree with custody papers?	Yes	(No)	N/A				
12	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A				
13	Were all of the preserved bottles received with the appropriate preservative? HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 Preservative additions noted below	Yes	No	(N/A)				
14	Were all samples received within analysis holding times?	(Yes)	No	N/A				
15	Were all VOA vials free of air bubbles? If present, note below	(Yes)	No	N/A				
16	Where did the bottles originate?	(CAS)	Client					

Sample ID	Reagent	Lot #	ml added	Initials Date/Time
			(1)	

Additional comments and/or explanation of all discrepancies noted above: 1 of 3 volatile vial label has the ID as MW0031-03192012 for MW0032-03192012. (2) Sample date & time matches Sample time on labels is 1832 for MW0038-03192012. (3) Sample ID on labels is

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1201360

Date: 3.22.12 Initials: GB

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.	
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.	
Preserve	N/A	HCl	Na2 S2O3	N/A	HCl	H2SO4	HNO3	N/A	H2SO4	HNO3	ZnAc2/ NaOH	NaOH	N/A	HNO3	N/A	HCl	H2SO4	HNO3	N/A	N/A	HNO3	N/A	HCl	H2SO4	N/A	N/A	N/A	N/A	Na2 S2O3	N/A	N/A	
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sample #	-	-		-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-				-	-		-	
-1		3																														-1
-2																																-2
-3																																-3
-4																																-4
-5																																-5
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-23																																-23
-24																																-24
-25	3																								1							-25
-26	3																								1							-26
-27	3																								1							-27
-28	3																								1							-28
-29		4	Trip Blank																													-29
-30																																-30
-31																																-31
-32																																-32
-33																																-33
-34																																-34
-35																																-35
-36																																-36
-37																																-37
-38																																-38
-39																																-39
-40																																-40

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

Summary Package

9143 Philips Highway, Suite 200
Jacksonville, Florida 32256
Phone: (904) 739-2277 Fax (904) 739-2011
www.caslab.com

Organic Analysis:
Volatile Organic Compounds by GC/MS

Summary Package

Sample and QC Results

n:\Stealth\Crystal rpt\DividerA.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
CRHE-MW0032-045.0-03192012	J1201360-001	03/19/2012	03/22/2012
CRHE-MW0030-010.0-03192012	J1201360-002	03/19/2012	03/22/2012
CRHE-MW0023-065.0-03192012	J1201360-003	03/19/2012	03/22/2012
CRHE-MW0031-045.0-03192012	J1201360-004	03/19/2012	03/22/2012
CRHE-IW0020I-045.0-03192012	J1201360-005	03/19/2012	03/22/2012
CRHE-MW0039-030.0-03192012	J1201360-006	03/19/2012	03/22/2012
CRHE-MW0038-010.0-03192012	J1201360-007	03/19/2012	03/22/2012
EB01-03192012	J1201360-008	03/19/2012	03/22/2012
CRHE-IW0015I-040.0-03192012	J1201360-009	03/19/2012	03/22/2012
CRHE-MW0034-038.5-03202012	J1201360-010	03/20/2012	03/22/2012
CRHE-IW0019I-040.0-03202012	J1201360-011	03/20/2012	03/22/2012
CRHE-MW0033-048.5-03202012	J1201360-012	03/20/2012	03/22/2012
CRHE-IW0021I-045.0-03202012	J1201360-013	03/20/2012	03/22/2012
CRHE-MW0035-045.0-03202012	J1201360-014	03/20/2012	03/22/2012
CRHE-MW0028-040.0-03202012	J1201360-015	03/20/2012	03/22/2012
CRHE-MW0037-030.0-03202012	J1201360-016	03/20/2012	03/22/2012
CRHE-IW0017I-030.0-03202012	J1201360-017	03/20/2012	03/22/2012
CRHE-IW0014I-040.0-03212012	J1201360-018	03/21/2012	03/22/2012
CRHE-MW0029-045.0-03212012	J1201360-019	03/21/2012	03/22/2012
CRHE-MW0026-035.0-03212012	J1201360-020	03/21/2012	03/22/2012
CRHE-MW0022-065.0-03212012	J1201360-021	03/21/2012	03/22/2012
CRHE-MW0027-045.0-03212012	J1201360-022	03/21/2012	03/22/2012
CRHE-MW0024-010.0-03212012	J1201360-023	03/21/2012	03/22/2012
CRHE-MW0025-030.0-03212012	J1201360-024	03/21/2012	03/22/2012
CRHE-188849-IDW-03212012	J1201360-025	03/21/2012	03/22/2012
CRHE-188797-IDW-03212012	J1201360-026	03/21/2012	03/22/2012
CRHE-188842-IDW-03212012	J1201360-027	03/21/2012	03/22/2012
CRHE-188838-IDW-03212012	J1201360-028	03/21/2012	03/22/2012
Trip Blank	J1201360-029	03/19/2012	03/22/2012
CHRE-MW0036-010.0-03202012	J1201360-030	03/20/2012	03/22/2012

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: James Nicholson

Date: 4/4/12 Title: Organics Manager

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.54**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**0.57**	I	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.62**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**6.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**13**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**0.31**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.30**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.71**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**8.2**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**83**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**5.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**0.70**	I	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.46**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.21**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**59**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**6.0**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**200**		10	2.2	10	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.49**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**33**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**0.92**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**79**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.49**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**0.96**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.50**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.43**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**92**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	113	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	97	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**2.0**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.21**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**76**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	27		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.36**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**3.4**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**12**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.2**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**140**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**150**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	101	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**4.1**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.48**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.3**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**1000**		20	7.2	20	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.3**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.25**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**18**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**530**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	97	86-112	03/30/12	Acceptable
Toluene-d8	102	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.92**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**9.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.42**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**99**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**3.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**1.4**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**0.52**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**33**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	96	86-112	03/30/12	Acceptable
Toluene-d8	103	88-115	03/30/12	Acceptable

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.98**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.26**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.55**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.23**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.44**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.59**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.31**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**4.2**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**3.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.55**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**4.1**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**180**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	110	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.2**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.44**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**8.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.20**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**19**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.32**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.52**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**90**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**4.0**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**3.6**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	99	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**1.4**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**1.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**420**		10	3.6	10	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**13**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**140**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**100**		10	2.2	10	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	112	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	100	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**3.5**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**9.1**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**6.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**0.41**	I	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**3600**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**0.22**	I	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.36**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**34**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1000**		100	16	100	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**2000**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	108	86-113	04/02/12	Acceptable
Dibromofluoromethane	95	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**0.51**	I	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**1.5**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.22**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	99	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**0.96**	I	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**2.7**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**790**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.22**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**14**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**1700**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**11**		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**0.74**	I	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**13**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**2.2**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**15**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**9700**		200	72	200	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**0.41**	I	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**75**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.60**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**7600**		200	44	200	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	92	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/02/12	Acceptable
Dibromofluoromethane	97	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	100	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	95	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	105	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	103	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	99	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.24	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.6	0.33	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.6	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.44	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	28	1.0	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.62	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.65	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	140	3.9	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.6	0.077	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	12	0.46	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.6	0.26	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.6	0.30	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.28	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.25	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.6	0.070	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**2.0**	I	56	0.17	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.6	0.082	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.6	0.56	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.6	0.20	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	23	0.29	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	23	0.28	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.6	0.27	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	102	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	22	I	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	103	64-135	03/22/12	Acceptable
Dibromofluoromethane	91	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.8	0.25	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.8	0.34	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.8	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.21	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.45	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	29	1.1	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.64	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.67	1	03/22/12	03/22/12	JWG1200305	
Acetone	**17**	I	150	4.1	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.8	0.080	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**2.1**	I	12	0.48	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.8	0.27	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.8	0.32	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.29	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.26	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.8	0.073	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	58	0.18	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.8	0.085	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.8	0.58	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.8	0.21	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	24	0.30	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	24	0.29	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.8	0.28	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	116	64-135	03/22/12	Acceptable
Dibromofluoromethane	99	74-125	03/22/12	Acceptable
Toluene-d8	108	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	95	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	102	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-MW0032-045.0-03192012	J1201360-001	97	109	99	98
CRHE-MW0030-010.0-03192012	J1201360-002	98	106	98	101
CRHE-MW0023-065.0-03192012	J1201360-003	100	107	99	96
CRHE-MW0031-045.0-03192012	J1201360-004	97	106	100	98
CRHE-IW0020I-045.0-03192012	J1201360-005	96	107	100	99
CRHE-MW0039-030.0-03192012	J1201360-006	99	113	99	97
CRHE-MW0038-010.0-03192012	J1201360-007	100	109	100	100
EB01-03192012	J1201360-008	97	106	99	101
CRHE-IW0015I-040.0-03192012	J1201360-009	101	107	99	100
CRHE-MW0034-038.5-03202012	J1201360-010	99	109	101	98
CRHE-IW0019I-040.0-03202012	J1201360-011	98	105	97	102
CRHE-MW0033-048.5-03202012	J1201360-012	96	109	96	103
CRHE-IW0021I-045.0-03202012	J1201360-013	99	109	99	99
CRHE-MW0035-045.0-03202012	J1201360-014	99	108	98	96
CRHE-MW0028-040.0-03202012	J1201360-015	95	110	98	98
CRHE-MW0037-030.0-03202012	J1201360-016	97	107	99	98
CRHE-IW0017I-030.0-03202012	J1201360-017	97	108	99	100
CRHE-IW0014I-040.0-03212012	J1201360-018	94	107	97	99
CRHE-MW0029-045.0-03212012	J1201360-019	98	112	99	100
CRHE-MW0026-035.0-03212012	J1201360-020	99	108	95	96
CRHE-MW0022-065.0-03212012	J1201360-021	99	107	99	98
CRHE-MW0027-045.0-03212012	J1201360-022	96	107	98	96
CRHE-MW0024-010.0-03212012	J1201360-023	98	107	99	98
CRHE-MW0025-030.0-03212012	J1201360-024	97	111	92	98
Trip Blank	J1201360-029	94	111	97	96
CHRE-MW0036-010.0-03202012	J1201360-030	97	111	97	100
Method Blank	JWG1200321-2	98	105	100	95
Method Blank	JWG1200325-2	99	105	99	98
Method Blank	JWG1200333-4	96	103	97	96
Lab Control Sample	JWG1200321-1	99	107	99	100
Lab Control Sample	JWG1200325-1	94	104	98	97
Lab Control Sample	JWG1200333-3	95	109	97	96

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	72-121
Sur2 =	4-Bromofluorobenzene	86-113
Sur3 =	Dibromofluoromethane	86-112
Sur4 =	Toluene-d8	88-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-188849-IDW-03212012	J1201360-025	94	99	96	101
CRHE-188797-IDW-03212012	J1201360-026	92	102	96	105
CRHE-188842-IDW-03212012	J1201360-027	90	103	91	105
CRHE-188838-IDW-03212012	J1201360-028	94	116	99	108
Method Blank	JWG1200305-2	94	95	96	102
Lab Control Sample	JWG1200305-1	94	97	98	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	80-120
Sur2 = 4-Bromofluorobenzene	64-135
Sur3 = Dibromofluoromethane	74-125
Sur4 = Toluene-d8	46-156

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-02.D
Instrument ID: MS52
Analysis Method: 8260B

Lab Code: JWG1200306-2
Analysis Lot: JWG1200306

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	53,457	11.60	47,863	9.16	122,997	6.17
	Upper Limit ==>	106,914	12.10	95,726	9.66	245,994	6.67
	Lower Limit ==>	26,729	11.10	23,932	8.66	61,499	5.67
	ICAL Result ==>	48,766	11.60	43,592	9.16	110,750	6.17
Associated Analyses							
Lab Control Sample	JWG1200305-1	52,658	11.60	48,614	9.16	125,564	6.17
Method Blank	JWG1200305-2	50,853	11.59	47,975	9.16	125,218	6.17
CRHE-188849-IDW-03212012	J1201360-025	45,168	11.60	46,360	9.16	121,432	6.17
CRHE-188797-IDW-03212012	J1201360-026	40,555	11.60	43,358	9.16	116,772	6.17
CRHE-188842-IDW-03212012	J1201360-027	40,415	11.60	42,767	9.17	117,887	6.17
CRHE-188838-IDW-03212012	J1201360-028	35,955	11.60	42,626	9.16	118,248	6.18

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200322-2
Analysis Lot: JWG1200322

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	328,039	11.12	413,475	8.80	1,184,883	5.51
	Upper Limit ==>	656,078	11.62	826,950	9.30	2,369,766	6.01
	Lower Limit ==>	164,020	10.62	206,738	8.30	592,442	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200321-1	318,654	11.12	397,222	8.80	1,171,291	5.51
Method Blank	JWG1200321-2	337,907	11.13	403,441	8.80	1,145,808	5.51
CRHE-MW0032-045.0-03192012	J1201360-001	315,754	11.13	399,126	8.80	1,148,047	5.51
CRHE-MW0030-010.0-03192012	J1201360-002	323,166	11.13	392,864	8.80	1,177,874	5.51
CRHE-MW0023-065.0-03192012	J1201360-003	322,551	11.13	384,128	8.80	1,104,427	5.52
CRHE-MW0031-045.0-03192012	J1201360-004	331,420	11.13	396,550	8.80	1,156,645	5.51
CRHE-IW0020I-045.0-03192012	J1201360-005	322,585	11.13	393,897	8.80	1,164,407	5.51
CRHE-MW0039-030.0-03192012	J1201360-006	319,516	11.13	401,946	8.80	1,172,242	5.51
CRHE-MW0038-010.0-03192012	J1201360-007	327,430	11.13	405,589	8.80	1,173,486	5.51
EB01-03192012	J1201360-008	330,521	11.13	389,632	8.80	1,146,764	5.51
CRHE-IW0015I-040.0-03192012	J1201360-009	332,367	11.13	389,217	8.80	1,147,109	5.52
CRHE-MW0034-038.5-03202012	J1201360-010	321,006	11.13	397,996	8.80	1,125,602	5.52
CRHE-IW0019I-040.0-03202012	J1201360-011	316,893	11.13	382,659	8.80	1,133,176	5.51
CRHE-MW0033-048.5-03202012	J1201360-012	324,878	11.13	388,136	8.80	1,169,094	5.52
CRHE-IW0021I-045.0-03202012	J1201360-013	320,327	11.13	393,071	8.80	1,149,686	5.51
CRHE-MW0035-045.0-03202012	J1201360-014	330,706	11.12	409,470	8.80	1,174,443	5.52
CRHE-MW0028-040.0-03202012	J1201360-015	319,532	11.13	409,711	8.80	1,202,891	5.51
CRHE-MW0037-030.0-03202012	J1201360-016	322,399	11.13	400,508	8.80	1,144,939	5.51
CRHE-IW0017I-030.0-03202012	J1201360-017	326,036	11.12	400,878	8.80	1,158,793	5.51

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 09:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200326-2
Analysis Lot: JWG1200326

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	338,282	11.13	419,066	8.80	1,182,437	5.51
	Upper Limit ==>	676,564	11.63	838,132	9.30	2,364,874	6.01
	Lower Limit ==>	169,141	10.63	209,533	8.30	591,219	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200325-1	322,206	11.13	386,918	8.80	1,106,267	5.51
Method Blank	JWG1200325-2	322,051	11.13	383,241	8.80	1,093,788	5.51
Trip Blank	J1201360-029	314,454	11.13	402,969	8.80	1,172,678	5.51
CRHE-MW0032-045.0-03192012D	J1201360-001	317,812	11.13	379,377	8.80	1,119,988	5.51
CRHE-MW0031-045.0-03192012D	J1201360-004	322,770	11.13	395,883	8.80	1,159,224	5.51
CRHE-IW0020I-045.0-03192012D	J1201360-005	319,432	11.13	390,271	8.80	1,120,582	5.51
CRHE-MW0039-030.0-03192012D	J1201360-006	325,142	11.13	389,370	8.80	1,108,624	5.51
CRHE-MW0034-038.5-03202012D	J1201360-010	327,008	11.13	395,803	8.80	1,096,028	5.51
CRHE-IW0019I-040.0-03202012D	J1201360-011	319,532	11.13	392,191	8.80	1,116,694	5.51
CRHE-MW0035-045.0-03202012D	J1201360-014	317,749	11.13	383,466	8.80	1,119,903	5.52
CRHE-MW0028-040.0-03202012D	J1201360-015	320,292	11.13	385,204	8.80	1,151,728	5.51
CRHE-IW0017I-030.0-03202012D	J1201360-017	313,536	11.13	395,840	8.80	1,123,689	5.51
CRHE-MW0027-045.0-03212012	J1201360-022	316,218	11.13	402,165	8.80	1,116,092	5.52
CRHE-MW0022-065.0-03212012	J1201360-021	332,100	11.13	405,929	8.80	1,179,725	5.52
CRHE-MW0026-035.0-03212012	J1201360-020	326,026	11.13	414,330	8.80	1,170,714	5.52
CRHE-MW0029-045.0-03212012	J1201360-019	314,676	11.13	399,293	8.80	1,157,084	5.52
CRHE-IW0014I-040.0-03212012	J1201360-018	324,993	11.13	393,830	8.80	1,133,953	5.52
CRHE-MW0024-010.0-03212012	J1201360-023	318,409	11.13	384,678	8.80	1,105,383	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 11:53

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-03.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200334-2
Analysis Lot: JWG1200334

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	317,277	11.13	383,361	8.80	1,079,939	5.51
	Upper Limit ==>	634,554	11.63	766,722	9.30	2,159,878	6.01
	Lower Limit ==>	158,639	10.63	191,681	8.30	539,970	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200333-3	309,433	11.13	402,331	8.80	1,130,474	5.51
Method Blank	JWG1200333-4	316,138	11.13	389,420	8.80	1,095,457	5.51
CRHE-IW0014I-040.0-03212012RI	J1201360-018	316,659	11.13	370,802	8.80	1,091,211	5.51
CRHE-MW0022-065.0-03212012R	J1201360-021	315,576	11.13	390,002	8.80	1,108,138	5.51
CRHE-MW0029-045.0-03212012D	J1201360-019	301,400	11.13	375,955	8.80	1,085,571	5.51
CRHE-MW0026-035.0-03212012D	J1201360-020	304,045	11.12	375,196	8.80	1,067,834	5.51
CRHE-MW0027-045.0-03212012D	J1201360-022	304,830	11.12	381,443	8.80	1,056,074	5.51
CHRE-MW0036-010.0-03202012	J1201360-030	307,096	11.13	380,864	8.80	1,120,196	5.51
CRHE-MW0025-030.0-03212012	J1201360-024	305,472	11.13	384,814	8.80	1,106,582	5.51
CRHE-MW0025-030.0-03212012D	J1201360-024	313,276	11.13	402,002	8.80	1,159,827	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.8	20.0	99	77-118
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	70-122
1,1,2,2-Tetrachloroethane	20.3	20.0	102	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	20.5	20.0	103	79-117
1,1-Dichloroethene	23.0	20.0	115	72-128
1,2,3-Trichlorobenzene	20.7	20.0	104	62-136
1,2,4-Trichlorobenzene	19.2	20.0	96	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.5	20.0	82	60-122
1,2-Dibromoethane (EDB)	18.7	20.0	93	76-118
1,2-Dichlorobenzene	20.5	20.0	103	81-115
1,2-Dichloroethane (EDC)	19.9	20.0	100	70-117
1,2-Dichloropropane	21.6	20.0	108	79-117
1,3-Dichlorobenzene	21.5	20.0	107	82-116
1,4-Dichlorobenzene	20.9	20.0	105	82-115
2-Butanone (MEK)	102	100	102	62-138
2-Hexanone	93.2	100	93	74-127
4-Methyl-2-pentanone (MIBK)	96.1	100	96	77-120
Acetone	88.3	100	88	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.6	20.0	98	78-118
Bromodichloromethane	20.2	20.0	101	75-118
Bromoform	19.2	20.0	96	63-121
Bromomethane	19.1	20.0	95	31-153
Carbon Disulfide	119	100	119	72-128
Carbon Tetrachloride	18.3	20.0	91	67-124
Chlorobenzene	20.7	20.0	103	83-118
Chloroethane	21.5	20.0	107	68-132
Chloroform	19.6	20.0	98	77-116
Chloromethane	24.8	20.0	124	60-128
cis-1,2-Dichloroethene	21.5	20.0	108	78-117
cis-1,3-Dichloropropene	20.9	20.0	105	80-119
Cyclohexane	20.3	20.0	102	75-124
Dibromochloromethane	19.4	20.0	97	74-121
Dichlorodifluoromethane	22.1	20.0	111	49-132
Ethylbenzene	21.8	20.0	109	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

	Lab Control Sample JWG1200321-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.0	20.0	120 *	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	19.4	20.0	97	50-137
Methyl tert-Butyl Ether	20.0	20.0	100	73-118
Methylene Chloride	20.5	20.0	103	75-123
o-Xylene	21.3	20.0	106	80-119
Styrene	20.9	20.0	105	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	20.9	20.0	104	75-121
trans-1,3-Dichloropropene	19.7	20.0	98	76-118
Trichloroethene (TCE)	20.6	20.0	103	78-122
Trichlorofluoromethane	20.3	20.0	101	58-134
Trichlorotrifluoroethane	21.4	20.0	107	77-128
Vinyl Chloride	21.4	20.0	107	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.4	20.0	97	77-118
1,1,1-Trichloroethane (TCA)	20.2	20.0	101	70-122
1,1,2,2-Tetrachloroethane	21.1	20.0	106	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	21.2	20.0	106	79-117
1,1-Dichloroethene	23.6	20.0	118	72-128
1,2,3-Trichlorobenzene	19.5	20.0	98	62-136
1,2,4-Trichlorobenzene	18.7	20.0	93	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.7	20.0	83	60-122
1,2-Dibromoethane (EDB)	19.1	20.0	96	76-118
1,2-Dichlorobenzene	20.3	20.0	101	81-115
1,2-Dichloroethane (EDC)	19.8	20.0	99	70-117
1,2-Dichloropropane	21.5	20.0	108	79-117
1,3-Dichlorobenzene	21.0	20.0	105	82-116
1,4-Dichlorobenzene	21.0	20.0	105	82-115
2-Butanone (MEK)	99.8	100	100	62-138
2-Hexanone	94.3	100	94	74-127
4-Methyl-2-pentanone (MIBK)	95.0	100	95	77-120
Acetone	86.2	100	86	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.4	20.0	97	78-118
Bromodichloromethane	20.9	20.0	104	75-118
Bromoform	20.2	20.0	101	63-121
Bromomethane	19.4	20.0	97	31-153
Carbon Disulfide	121	100	121	72-128
Carbon Tetrachloride	19.3	20.0	96	67-124
Chlorobenzene	20.3	20.0	101	83-118
Chloroethane	22.3	20.0	112	68-132
Chloroform	20.5	20.0	102	77-116
Chloromethane	25.2	20.0	126	60-128
cis-1,2-Dichloroethene	21.7	20.0	108	78-117
cis-1,3-Dichloropropene	20.7	20.0	104	80-119
Cyclohexane	20.8	20.0	104	75-124
Dibromochloromethane	19.5	20.0	97	74-121
Dichlorodifluoromethane	22.3	20.0	111	49-132
Ethylbenzene	21.1	20.0	105	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	23.8	20.0	119	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	18.4	20.0	92	50-137
Methyl tert-Butyl Ether	20.8	20.0	104	73-118
Methylene Chloride	21.2	20.0	106	75-123
o-Xylene	21.4	20.0	107	80-119
Styrene	21.2	20.0	106	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	21.2	20.0	106	75-121
trans-1,3-Dichloropropene	19.9	20.0	100	76-118
Trichloroethene (TCE)	20.8	20.0	104	78-122
Trichlorofluoromethane	21.2	20.0	106	58-134
Trichlorotrifluoroethane	22.4	20.0	112	77-128
Vinyl Chloride	22.0	20.0	110	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	77-118
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	70-122
1,1,2,2-Tetrachloroethane	19.6	20.0	98	66-135
1,1,2-Trichloroethane	19.4	20.0	97	75-122
1,1-Dichloroethane	20.4	20.0	102	79-117
1,1-Dichloroethene	22.4	20.0	112	72-128
1,2,3-Trichlorobenzene	19.2	20.0	96	62-136
1,2,4-Trichlorobenzene	17.9	20.0	89	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.1	20.0	81	60-122
1,2-Dibromoethane (EDB)	18.2	20.0	91	76-118
1,2-Dichlorobenzene	19.6	20.0	98	81-115
1,2-Dichloroethane (EDC)	20.0	20.0	100	70-117
1,2-Dichloropropane	21.1	20.0	105	79-117
1,3-Dichlorobenzene	20.9	20.0	105	82-116
1,4-Dichlorobenzene	20.4	20.0	102	82-115
2-Butanone (MEK)	98.5	100	99	62-138
2-Hexanone	91.0	100	91	74-127
4-Methyl-2-pentanone (MIBK)	92.1	100	92	77-120
Acetone	90.0	100	90	42-161
Benzene	20.5	20.0	102	80-117
Bromochloromethane	18.7	20.0	94	78-118
Bromodichloromethane	20.6	20.0	103	75-118
Bromoform	18.3	20.0	92	63-121
Bromomethane	17.8	20.0	89	31-153
Carbon Disulfide	114	100	114	72-128
Carbon Tetrachloride	17.7	20.0	88	67-124
Chlorobenzene	19.7	20.0	98	83-118
Chloroethane	19.9	20.0	100	68-132
Chloroform	19.7	20.0	98	77-116
Chloromethane	21.6	20.0	108	60-128
cis-1,2-Dichloroethene	20.9	20.0	104	78-117
cis-1,3-Dichloropropene	19.6	20.0	98	80-119
Cyclohexane	19.8	20.0	99	75-124
Dibromochloromethane	18.4	20.0	92	74-121
Dichlorodifluoromethane	19.8	20.0	99	49-132
Ethylbenzene	20.8	20.0	104	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	24.1	20.0	120 *	78-119
m,p-Xylenes	41.0	40.0	102	79-122
Methyl Acetate	19.1	20.0	95	50-137
Methyl tert-Butyl Ether	19.8	20.0	99	73-118
Methylene Chloride	20.0	20.0	100	75-123
o-Xylene	20.2	20.0	101	80-119
Styrene	19.9	20.0	99	80-121
Tetrachloroethene (PCE)	18.9	20.0	94	75-126
Toluene	20.0	20.0	100	52-152
trans-1,2-Dichloroethene	20.1	20.0	100	75-121
trans-1,3-Dichloropropene	19.3	20.0	96	76-118
Trichloroethene (TCE)	20.3	20.0	101	78-122
Trichlorofluoromethane	18.9	20.0	95	58-134
Trichlorotrifluoroethane	20.0	20.0	100	77-128
Vinyl Chloride	19.6	20.0	98	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.1	20.0	90	71-124
1,1,1-Trichloroethane (TCA)	17.4	20.0	87	72-131
1,1,2,2-Tetrachloroethane	17.4	20.0	87	51-136
1,1,2-Trichloroethane	18.4	20.0	92	74-113
1,1-Dichloroethane	18.3	20.0	92	74-124
1,1-Dichloroethene	16.0	20.0	80	67-128
1,2,3-Trichlorobenzene	18.9	20.0	94	64-129
1,2,4-Trichlorobenzene	18.7	20.0	93	61-135
1,2-Dibromo-3-chloropropane (DBCP)	17.4	20.0	87	54-129
1,2-Dibromoethane (EDB)	18.2	20.0	91	74-114
1,2-Dichlorobenzene	18.6	20.0	93	74-111
1,2-Dichloroethane (EDC)	17.7	20.0	88	74-120
1,2-Dichloropropane	18.3	20.0	91	77-119
1,3-Dichlorobenzene	18.5	20.0	93	74-114
1,4-Dichlorobenzene	18.7	20.0	93	72-112
2-Butanone (MEK)	87.5	100	87	55-136
2-Hexanone	88.0	100	88	60-127
4-Methyl-2-pentanone (MIBK)	90.1	100	90	64-122
Acetone	83.4	100	83	30-164
Benzene	18.2	20.0	91	76-123
Bromochloromethane	19.0	20.0	95	75-124
Bromodichloromethane	17.1	20.0	85	74-124
Bromoform	16.8	20.0	84	58-126
Bromomethane	18.5	20.0	92	25-175
Carbon Disulfide	110	100	110	62-134
Carbon Tetrachloride	16.0	20.0	80	68-134
Chlorobenzene	19.0	20.0	95	74-116
Chloroethane	17.5	20.0	88	64-131
Chloroform	17.1	20.0	86	75-120
Chloromethane	16.6	20.0	83	59-138
cis-1,2-Dichloroethene	18.4	20.0	92	74-122
cis-1,3-Dichloropropene	18.5	20.0	93	75-115
Cyclohexane	19.3	20.0	96	70-127
Dibromochloromethane	16.7	20.0	83	67-123
Dichlorodifluoromethane	17.1	20.0	86	51-150
Ethylbenzene	18.9	20.0	95	71-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	20.9	20.0	105	67-124
m,p-Xylenes	38.0	40.0	95	71-122
Methyl Acetate	16.6	20.0	83	25-160
Methyl tert-Butyl Ether	18.1	20.0	90	72-121
Methylene Chloride	16.6	20.0	83	60-140
o-Xylene	18.3	20.0	92	71-120
Styrene	19.1	20.0	95	70-122
Tetrachloroethene (PCE)	18.9	20.0	95	69-124
Toluene	18.7	20.0	93	72-118
trans-1,2-Dichloroethene	17.6	20.0	88	71-127
trans-1,3-Dichloropropene	17.6	20.0	88	73-115
Trichloroethene (TCE)	18.4	20.0	92	70-129
Trichlorofluoromethane	17.4	20.0	87	67-129
Trichlorotrifluoroethane	17.7	20.0	89	66-131
Vinyl Chloride	18.9	20.0	95	62-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 13:10

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-06.D

Level: Low
Extraction Lot: JWG1200321

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/12	11:42
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 11:20

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-06.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/12	09:51
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 13:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-07.D

Level: Low
Extraction Lot: JWG1200333

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/12	12:25
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/22/2012
Sample Matrix:	Soil	**Date Analyzed:**	03/22/2012
		Time Analyzed:	11:28

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS52
Lab Code:	JWG1200305-2	**File ID:**	J:\MS52\DATA\MS52-120322\0322-05.D
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200305

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/12	10:14
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 11:42

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/12	13:10
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 09:51

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/12	11:20
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 12:25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-04.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200333

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/12	13:53
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012
Time Analyzed: 10:14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Instrument ID: MS52
File ID: J:\MS52\DATA\MS52-120322\0322-03.D

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200305

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/12	11:28
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:17

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-01.D
Instrument ID: MS52
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200306

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.1	3056	PASS
75	95	30	60	44.7	9053	PASS
95	95	100	100	100.0	20275	PASS
96	95	5	9	6.8	1378	PASS
173	174	0	2	0.4	78	PASS
174	95	50	120	93.5	18957	PASS
175	174	5	9	7.2	1370	PASS
176	174	95	101	98.9	18742	PASS
177	176	5	9	6.5	1226	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200306-2	J:\MS52\DATA\MS52-120322\0322-02.D	03/22/2012	09:45	
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/2012	10:14	
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/2012	11:28	
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/2012	18:20	
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/2012	18:48	
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/2012	19:17	
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/2012	19:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 10:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200322

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.2	25176	PASS
75	95	30	60	33.7	55912	PASS
95	95	100	100	100.0	166080	PASS
96	95	5	9	6.4	10595	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.7	150592	PASS
175	174	5	9	7.5	11247	PASS
176	174	95	101	95.4	143616	PASS
177	176	5	9	6.0	8649	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200322-2	J:\MS53\DATA\MS53-120330\0330-02.D	03/30/2012	11:12	
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/2012	11:42	
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/2012	13:10	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/2012	13:40	
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/2012	14:10	
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/2012	14:40	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/2012	15:09	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/2012	15:39	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/2012	16:09	
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/2012	16:39	
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/2012	17:09	
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/2012	17:39	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/2012	18:09	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/2012	18:39	
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/2012	19:09	
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/2012	19:39	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/2012	20:09	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/2012	20:39	
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/2012	21:08	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/2012	21:38	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 08:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200326

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	37064	PASS
75	95	30	60	35.7	80421	PASS
95	95	100	100	100.0	225429	PASS
96	95	5	9	6.5	14647	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.9	180139	PASS
175	174	5	9	7.7	13885	PASS
176	174	95	101	96.2	173248	PASS
177	176	5	9	6.3	10928	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200326-2	J:\MS53\DATA\MS53-120402\0402-02.D	04/02/2012	09:21	
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/2012	09:51	
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/2012	11:20	
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/2012	11:50	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/2012	12:20	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/2012	12:49	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/2012	13:20	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/2012	13:50	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/2012	14:20	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/2012	14:50	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/2012	15:19	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/2012	15:49	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/2012	16:19	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/2012	16:49	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/2012	17:19	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/2012	17:49	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/2012	18:19	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/2012	18:49	
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/2012	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 10:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200334

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.8	34616	PASS
75	95	30	60	36.5	75304	PASS
95	95	100	100	100.0	206165	PASS
96	95	5	9	6.5	13426	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	74.0	152600	PASS
175	174	5	9	8.1	12319	PASS
176	174	95	101	95.9	146363	PASS
177	176	5	9	6.7	9745	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200334-2	J:\MS53\DATA\MS53-120403\0403-03.D	04/03/2012	11:53	
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/2012	12:25	
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/2012	13:53	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/2012	14:23	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/2012	14:52	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/2012	15:22	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/2012	15:51	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/2012	16:21	
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/2012	16:50	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/2012	17:20	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/2012	18:18	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS52\DATA\MS52-120227\0227-04.D	F	J:\MS52\DATA\MS52-120227\0227-09.D
B	J:\MS52\DATA\MS52-120227\0227-05.D	G	J:\MS52\DATA\MS52-120227\0227-10.D
C	J:\MS52\DATA\MS52-120227\0227-06.D	H	J:\MS52\DATA\MS52-120227\0227-11.D
D	J:\MS52\DATA\MS52-120227\0227-07.D	I	J:\MS52\DATA\MS52-120227\0227-12.D
E	J:\MS52\DATA\MS52-120227\0227-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	1.06	B	2.0	1.07	C	5.0	1.09	D	10	1.16	E	20	1.24
	F	50	1.29	G	100	1.41	H	150	1.24	I	200	1.35			
1,1,1-Trichloroethane (TCA)	A	1.0	0.672	B	2.0	0.693	C	5.0	0.706	D	10	0.709	E	20	0.843
	F	50	0.863	G	100	0.927	H	150	0.774	I	200	0.890			
1,1,2,2-Tetrachloroethane	A	1.0	0.996	B	2.0	0.870	C	5.0	0.993	D	10	0.943	E	20	0.984
	F	50	1.03	G	100	1.16	H	150	1.08	I	200	1.03			
1,1,2-Trichloroethane	A	1.0	0.650	B	2.0	0.651	C	5.0	0.608	D	10	0.664	E	20	0.665
	F	50	0.704	G	100	0.758	H	150	0.685	I	200	0.694			
1,1-Dichloroethane	A	1.0	0.636	B	2.0	0.665	C	5.0	0.745	D	10	0.712	E	20	0.795
	F	50	0.787	G	100	0.830	H	150	0.727	I	200	0.812			
1,1-Dichloroethene	A	1.0	0.518	B	2.0	0.546	C	5.0	0.598	D	10	0.564	E	20	0.676
	F	50	0.699	G	100	0.729	H	150	0.616	I	200	0.713			
1,2,3-Trichlorobenzene							C	5.0	1.51	D	10	1.53	E	20	1.65
	F	50	1.68	G	100	1.88	H	150	1.79	I	200	1.79			
1,2,4-Trichlorobenzene							C	5.0	1.78	D	10	1.65	E	20	1.85
	F	50	1.95	G	100	2.14	H	150	2.02	I	200	2.06			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.201	D	10	0.207	E	20	0.215
	F	50	0.224	G	100	0.265	H	150	0.268	I	200	0.246			
1,2-Dibromoethane (EDB)	A	1.0	0.828	B	2.0	0.746	C	5.0	0.831	D	10	0.838	E	20	0.879
	F	50	0.910	G	100	1.02	H	150	0.922	I	200	0.926			
1,2-Dichlorobenzene	A	1.0	2.20	B	2.0	2.23	C	5.0	2.29	D	10	2.27	E	20	2.42
	F	50	2.48	G	100	2.75	H	150	2.54	I	200	2.57			
1,2-Dichloroethane (EDC)	A	1.0	0.451	B	2.0	0.543	C	5.0	0.534	D	10	0.526	E	20	0.550
	F	50	0.559	G	100	0.594	H	150	0.529	I	200	0.541			
1,2-Dichloroethane-d4	A	50	0.259	B	50	0.263	C	50	0.260	D	50	0.257	E	50	0.250
	F	50	0.246	G	50	0.250	H	50	0.238	I	50	0.232			
1,2-Dichloropropane	A	1.0	0.317	B	2.0	0.359	C	5.0	0.385	D	10	0.389	E	20	0.419
	F	50	0.414	G	100	0.449	H	150	0.398	I	200	0.432			
1,3-Dichlorobenzene	A	1.0	2.49	B	2.0	2.45	C	5.0	2.50	D	10	2.50	E	20	2.68
	F	50	2.78	G	100	2.98	H	150	2.75	I	200	2.89			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	2.55	B	2.0	2.49	C	5.0	2.54	D	10	2.51	E	20	2.68
	F	50	2.71	G	100	2.93	H	150	2.66	I	200	2.76			
2-Butanone (MEK)	A	5.0	0.110	B	10	0.121	C	25	0.134	D	50	0.129	E	100	0.122
	F	250	0.126	G	500	0.137	H	750	0.133	I	1000	0.120			
2-Hexanone	A	5.0	0.483	B	10	0.458	C	25	0.508	D	50	0.502	E	100	0.493
	F	250	0.519	G	500	0.587	H	750	0.567	I	1000	0.513			
4-Bromofluorobenzene	A	50	0.871	B	50	0.864	C	50	0.864	D	50	0.885	E	50	0.872
	F	50	0.901	G	50	0.940	H	50	1.01	I	50	1.05			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.687	B	10	0.676	C	25	0.718	D	50	0.734	E	100	0.712
	F	250	0.727	G	500	0.822	H	750	0.779	I	1000	0.708			
Acetone	A	5.0	0.109	B	10	0.114	C	25	0.0910	D	50	0.0862	E	100	0.0760
	F	250	0.0764	G	500	0.0848	H	750	0.0801	I	1000	0.0729			
Benzene	A	1.0	1.64	B	2.0	1.61	C	5.0	1.72	D	10	1.63	E	20	1.81
	F	50	1.84	G	100	1.93	H	150	1.66	I	200	1.84			
Bromochloromethane	A	1.0	0.229	B	2.0	0.251	C	5.0	0.275	D	10	0.266	E	20	0.289
	F	50	0.281	G	100	0.280	H	150	0.254	I	200	0.262			
Bromodichloromethane	A	1.0	0.550	B	2.0	0.529	C	5.0	0.562	D	10	0.550	E	20	0.610
	F	50	0.623	G	100	0.668	H	150	0.599	I	200	0.632			
Bromoform	A	1.0	0.578	B	2.0	0.610	C	5.0	0.604	D	10	0.656	E	20	0.670
	F	50	0.738	G	100	0.832	H	150	0.780	I	200	0.769			
Bromomethane	A	1.0	0.210	B	2.0	0.245	C	5.0	0.239	D	10	0.240	E	20	0.289
	F	50	0.312	G	100	0.316	H	150	0.267	I	200	0.285			
Carbon Disulfide	A	5.0	0.950	B	10	0.925	C	25	0.995	D	50	0.961	E	100	1.11
	F	250	1.12	G	500	1.16	H	750	0.967	I	1000	1.12			
Carbon Tetrachloride	A	1.0	0.499	B	2.0	0.583	C	5.0	0.602	D	10	0.603	E	20	0.705
	F	50	0.755	G	100	0.804	H	150	0.676	I	200	0.775			
Chlorobenzene	A	1.0	2.91	B	2.0	3.04	C	5.0	3.14	D	10	3.18	E	20	3.41
	F	50	3.49	G	100	3.79	H	150	3.26	I	200	3.61			
Chloroethane	A	1.0	0.284	B	2.0	0.292	C	5.0	0.287	D	10	0.265	E	20	0.321
	F	50	0.322	G	100	0.335	H	150	0.285	I	200	0.325			
Chloroform	A	1.0	0.865	B	2.0	0.772	C	5.0	0.799	D	10	0.779	E	20	0.844
	F	50	0.850	G	100	0.904	H	150	0.787	I	200	0.854			
Chloromethane	A	1.0	0.480	B	2.0	0.498	C	5.0	0.522	D	10	0.490	E	20	0.602
	F	50	0.595	G	100	0.630	H	150	0.530	I	200	0.616			
cis-1,2-Dichloroethene	A	1.0	0.521	B	2.0	0.547	C	5.0	0.560	D	10	0.524	E	20	0.600
	F	50	0.608	G	100	0.638	H	150	0.550	I	200	0.612			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	1.59	B	2.0	1.51	C	5.0	1.57	D	10	1.55	E	20	1.74
	F	50	1.82	G	100	1.96	H	150	1.77	I	200	1.89			
Cyclohexane	A	1.0	0.520	B	2.0	0.584	C	5.0	0.628	D	10	0.623	E	20	0.741
	F	50	0.762	G	100	0.817	H	150	0.690	I	200	0.796			
Dibromochloromethane	A	1.0	0.936	B	2.0	0.974	C	5.0	1.04	D	10	1.01	E	20	1.10
	F	50	1.15	G	100	1.28	H	150	1.15	I	200	1.20			
Dibromofluoromethane	A	50	0.243	B	50	0.248	C	50	0.245	D	50	0.244	E	50	0.243
	F	50	0.240	G	50	0.232	H	50	0.237	I	50	0.232			
Dichlorodifluoromethane	A	1.0	0.485	B	2.0	0.502	C	5.0	0.513	D	10	0.488	E	20	0.600
	F	50	0.618	G	100	0.650	H	150	0.531	I	200	0.602			
Ethylbenzene	A	1.0	4.98	B	2.0	4.98	C	5.0	5.31	D	10	5.29	E	20	6.02
	F	50	6.24	G	100	6.74	H	150	5.77	I	200	6.43			
Isopropylbenzene	A	1.0	3.99	B	2.0	4.07	C	5.0	4.52	D	10	4.56	E	20	5.01
	F	50	5.26	G	100	5.79	H	150	5.23	I	200	5.74			
m,p-Xylenes	A	2.0	3.98	B	4.0	3.87	C	10	4.20	D	20	4.25	E	40	4.83
	F	100	4.88	G	200	5.27	H	300	4.48	I	400	4.97			
Methyl Acetate	A	1.0	0.534	B	2.0	0.515	C	5.0	0.528	D	10	0.519	E	20	0.510
	F	50	0.481	G	100	0.537	H	150	0.506	I	200	0.458			
Methyl tert-Butyl Ether	A	1.0	1.04	B	2.0	1.05	C	5.0	1.05	D	10	1.01	E	20	1.05
	F	50	1.10	G	100	1.17	H	150	1.11	I	200	1.10			
Methylene Chloride	A	1.0	0.840	B	2.0	0.616	C	5.0	0.514	D	10	0.453	E	20	0.512
	F	50	0.493	G	100	0.481	H	150	0.436	I	200	0.449			
o-Xylene	A	1.0	4.45	B	2.0	4.11	C	5.0	4.44	D	10	4.38	E	20	4.91
	F	50	5.04	G	100	5.37	H	150	4.67	I	200	5.10			
Styrene	A	1.0	2.66	B	2.0	3.13	C	5.0	3.22	D	10	3.25	E	20	3.70
	F	50	3.83	G	100	4.21	H	150	3.67	I	200	3.99			
Tetrachloroethene (PCE)	A	1.0	0.932	B	2.0	0.963	C	5.0	1.08	D	10	1.05	E	20	1.21
	F	50	1.23	G	100	1.32	H	150	1.11	I	200	1.27			
Toluene	A	1.0	4.59	B	2.0	4.55	C	5.0	4.69	D	10	4.68	E	20	5.27
	F	50	5.33	G	100	5.73	H	150	4.91	I	200	5.46			
Toluene-d8	A	50	2.51	B	50	2.46	C	50	2.44	D	50	2.46	E	50	2.50
	F	50	2.47	G	50	2.52	H	50	2.45	I	50	2.52			
trans-1,2-Dichloroethene	A	1.0	0.580	B	2.0	0.560	C	5.0	0.577	D	10	0.557	E	20	0.650
	F	50	0.639	G	100	0.679	H	150	0.577	I	200	0.661			
trans-1,3-Dichloropropene	A	1.0	1.40	B	2.0	1.47	C	5.0	1.44	D	10	1.45	E	20	1.54
	F	50	1.64	G	100	1.85	H	150	1.67	I	200	1.74			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.417	B	2.0	0.448	C	5.0	0.503	D	10	0.491	E	20	0.550
	F	50	0.557	G	100	0.591	H	150	0.512	I	200	0.578			
Trichlorofluoromethane	A	1.0	0.748	B	2.0	0.708	C	5.0	0.742	D	10	0.720	E	20	0.879
	F	50	0.881	G	100	0.938	H	150	0.779	I	200	0.893			
Trichlorotrifluoroethane	A	1.0	0.330	B	2.0	0.332	C	5.0	0.376	D	10	0.372	E	20	0.452
	F	50	0.462	G	100	0.471	H	150	0.393	I	200	0.453			
Vinyl Chloride	A	1.0	0.369	B	2.0	0.439	C	5.0	0.448	D	10	0.423	E	20	0.496
	F	50	0.465	G	100	0.461	H	150	0.365	I	200	0.444			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	10.3		≤ 15	1.21		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.3		≤ 15	0.786		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	8.1		≤ 15	1.01		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	6.2		≤ 15	0.675		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.0		≤ 15	0.745		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	12.4		≤ 15	0.629		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	8.1		≤ 15	1.69		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	9.0		≤ 15	1.92		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	11.8		≤ 15	0.232		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	8.9		≤ 15	0.878		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	2.42		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	7.1		≤ 15	0.536		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	4.2		≤ 15	0.251		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	10.1		≤ 15	0.396		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	2.67		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	5.3		≤ 15	2.65		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	6.7		≤ 15	0.126		0.01
2-Hexanone	MS	AverageRF	% RSD	7.8		≤ 15	0.514		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.6		≤ 15	0.918		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.3		≤ 15	0.729		0.01
Acetone	MS	Linear	R2	0.994		≥ 0.99	0.0878		0.01
Benzene	MS	AverageRF	% RSD	6.7		≤ 15	1.74		0.01
Bromochloromethane	MS	AverageRF	% RSD	7.0		≤ 15	0.265		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.8		≤ 15	0.592		0.01
† Bromoform	MS	AverageRF	% RSD	12.9		≤ 15	0.693		0.1
Bromomethane	MS	AverageRF	% RSD	13.5		≤ 15	0.267		0.01
Carbon Disulfide	MS	AverageRF	% RSD	8.9		≤ 15	1.03		0.01
Carbon Tetrachloride	MS	Linear	R2	0.993		≥ 0.99	0.667		0.01
† Chlorobenzene	MS	AverageRF	% RSD	8.6		≤ 15	3.32		0.3
Chloroethane	MS	AverageRF	% RSD	8.1		≤ 15	0.302		0.01
‡ Chloroform	MS	AverageRF	% RSD	5.5		≤ 15	0.828		0.01
† Chloromethane	MS	AverageRF	% RSD	10.7		≤ 15	0.551		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	7.3		≤ 15	0.573		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	9.5		≤ 15	1.71		0.01
Cyclohexane	MS	AverageRF	% RSD	14.9		≤ 15	0.684		0.01
Dibromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	1.09		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.3		≤ 15	0.241		
Dichlorodifluoromethane	MS	AverageRF	% RSD	11.4		≤ 15	0.554		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	11.2		≤ 15	5.75		0.01
Isopropylbenzene	MS	AverageRF	% RSD	13.5		≤ 15	4.91		0.01
m,p-Xylenes	MS	AverageRF	% RSD	10.7		≤ 15	4.53		0.01
Methyl Acetate	MS	AverageRF	% RSD	5.1		≤ 15	0.510		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	4.6		≤ 15	1.08		0.01

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation: Average RRF	Q	Minimum RRF
Methylene Chloride	MS	Linear	R2	0.998		≥ 0.99	0.533		0.01
o-Xylene	MS	AverageRF	% RSD	8.7		≤ 15	4.72		0.01
Styrene	MS	AverageRF	% RSD	13.9		≤ 15	3.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	12.1		≤ 15	1.13		0.01
‡ Toluene	MS	AverageRF	% RSD	8.6		≤ 15	5.02		0.01
Toluene-d8	SURR	AverageRF	% RSD	1.2		≤ 15	2.48		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	7.8		≤ 15	0.609		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	9.7		≤ 15	1.58		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.516		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	10.8		≤ 15	0.810		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.9		≤ 15	0.405		0.01
‡ Vinyl Chloride	MS	AverageRF	% RSD	10.0		≤ 15	0.434		0.01

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

File ID: J:\MS52\DATA\MS52-120227\0227-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	1.21	1.25	3	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.786	0.827	5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	1.01	1.01	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.675	0.713	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.745	0.819	10	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.629	0.681	8	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	1.69	1.66	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	1.92	1.85	-4	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.232	0.212	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.878	0.906	3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	2.42	2.47	2	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.536	0.540	1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.396	0.425	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	20	2.67	2.72	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	2.65	2.73	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.126	0.122	-3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.514	0.515	0	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.729	0.730	0	NA	± 30 %	AverageRF
Acetone	100	93	0.0878	0.0775	NA	-7	± 30 %	Linear
Benzene	20	21	1.74	1.85	6	NA	± 30 %	AverageRF
Bromochloromethane	20	22	0.265	0.292	10	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.592	0.612	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.693	0.665	-4	NA	± 30 %	AverageRF
Bromomethane	20	19	0.267	0.258	-3	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	1.03	1.12	8	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.667	0.697	NA	-3	± 30 %	Linear
Chlorobenzene	20	21	3.32	3.51	6	NA	± 30 %	AverageRF
Chloroethane	20	21	0.302	0.321	7	NA	± 30 %	AverageRF
Chloroform	20	20	0.828	0.846	2	NA	± 30 %	AverageRF
Chloromethane	20	21	0.551	0.569	3	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.573	0.605	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	1.71	1.79	5	NA	± 30 %	AverageRF
Cyclohexane	20	22	0.684	0.743	9	NA	± 30 %	AverageRF
Dibromochloromethane	20	20	1.09	1.10	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.554	0.589	6	NA	± 30 %	AverageRF
Ethylbenzene	20	21	5.75	6.10	6	NA	± 30 %	AverageRF
Isopropylbenzene	20	21	4.91	5.23	7	NA	± 30 %	AverageRF
m,p-Xylenes	40	43	4.53	4.90	8	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.510	0.512	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	1.08	1.10	2	NA	± 30 %	AverageRF
Methylene Chloride	20	26	0.533	0.618	NA	29	± 30 %	Linear

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	21	4.72	4.99	6	NA	± 30 %	AverageRF
Styrene	20	22	3.52	3.83	9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	21	1.13	1.21	7	NA	± 30 %	AverageRF
Toluene	20	21	5.02	5.34	6	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.609	0.653	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	1.58	1.57	0	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.516	0.579	12	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.810	0.857	6	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.405	0.435	7	NA	± 30 %	AverageRF
Vinyl Chloride	20	23	0.434	0.493	13	NA	± 30 %	AverageRF

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Level ID	File ID
A	J:\MS53\DATA\MS53-120307\0307-03.D
B	J:\MS53\DATA\MS53-120307\0307-04.D
C	J:\MS53\DATA\MS53-120307\0307-05.D
D	J:\MS53\DATA\MS53-120307\0307-06.D
E	J:\MS53\DATA\MS53-120307\0307-08.D
F	J:\MS53\DATA\MS53-120307\0307-09.D
G	J:\MS53\DATA\MS53-120307\0307-10.D
H	J:\MS53\DATA\MS53-120307\0307-11.D
I	J:\MS53\DATA\MS53-120307\0307-15.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	0.493	B	2.0	0.424	C	5.0	0.487	D	10	0.500	E	50	0.524
	F	100	0.512	G	150	0.473	H	200	0.463	I	20	0.523			
1,1,1-Trichloroethane (TCA)	A	1.0	0.186	B	2.0	0.173	C	5.0	0.216	D	10	0.207	E	50	0.253
	F	100	0.246	G	150	0.241	H	200	0.241	I	20	0.227			
1,1,2,2-Tetrachloroethane	A	1.0	0.721	B	2.0	0.736	C	5.0	0.779	D	10	0.812	E	50	0.777
	F	100	0.734	G	150	0.659	H	200	0.569	I	20	0.763			
1,1,2-Trichloroethane	A	1.0	0.374	B	2.0	0.341	C	5.0	0.369	D	10	0.374	E	50	0.363
	F	100	0.380	G	150	0.348	H	200	0.339	I	20	0.381			
1,1-Dichloroethane	A	1.0	0.341	B	2.0	0.323	C	5.0	0.390	D	10	0.382	E	50	0.427
	F	100	0.421	G	150	0.422	H	200	0.411	I	20	0.406			
1,1-Dichloroethene	A	1.0	0.218	B	2.0	0.195	C	5.0	0.247	D	10	0.227	E	50	0.266
	F	100	0.240	G	150	0.219	H	200	0.206	I	20	0.257			
1,2,3-Trichlorobenzene										D	10	0.342	E	50	0.343
	F	100	0.373	G	150	0.354	H	200	0.354	I	20	0.337			
1,2,4-Trichlorobenzene										D	10	0.485	E	50	0.533
	F	100	0.564	G	150	0.552	H	200	0.552	I	20	0.505			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.0716	D	10	0.0723	E	50	0.0750
	F	100	0.0823	G	150	0.0817	H	200	0.0823	I	20	0.0665			
1,2-Dibromoethane (EDB)	A	1.0	0.375	B	2.0	0.367	C	5.0	0.413	D	10	0.423	E	50	0.415
	F	100	0.425	G	150	0.406	H	200	0.382	I	20	0.421			
1,2-Dichlorobenzene	A	1.0	1.10	B	2.0	0.997	C	5.0	1.15	D	10	1.09	E	50	1.12
	F	100	1.12	G	150	1.03	H	200	1.01	I	20	1.16			
1,2-Dichloroethane (EDC)	A	1.0	0.136	B	2.0	0.117	C	5.0	0.138	D	10	0.137	E	50	0.147
	F	100	0.145	G	150	0.145	H	200	0.143	I	20	0.141			
1,2-Dichloroethane-d4	A	50	0.147	B	50	0.149	C	50	0.145	D	50	0.148	E	50	0.146
	F	50	0.144	G	50	0.146	H	50	0.141	I	50	0.141			
1,2-Dichloropropane	A	1.0	0.207	B	2.0	0.201	C	5.0	0.223	D	10	0.224	E	50	0.245
	F	100	0.240	G	150	0.233	H	200	0.230	I	20	0.234			
1,3-Dichlorobenzene	A	1.0	1.27	B	2.0	1.14	C	5.0	1.33	D	10	1.26	E	50	1.26
	F	100	1.16	G	150	1.06	H	200	0.987	I	20	1.31			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	1.21	B	2.0	1.11	C	5.0	1.28	D	10	1.25	E	50	1.31
	F	100	1.24	G	150	1.18	H	200	1.09	I	20	1.36			
2-Butanone (MEK)	A	5.0	0.00960	B	10	0.0116	C	25	0.0117	D	50	0.0121	E	250	0.0134
	F	500	0.0126	G	750	0.0128	H	1000	0.0131	I	100	0.0122			
2-Hexanone				B	10	0.293	C	25	0.288	D	50	0.283	E	250	0.263
	F	500	0.273	G	750	0.250	H	1000	0.238	I	100	0.278			
4-Bromofluorobenzene	A	50	1.02	B	50	0.970	C	50	0.993	D	50	0.952	E	50	0.907
	F	50	0.857	G	50	0.815	H	50	0.793	I	50	0.954			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.422	B	10	0.421	C	25	0.431	D	50	0.435	E	250	0.405
	F	500	0.401	G	750	0.380	H	1000	0.364	I	100	0.428			
Acetone	A	5.0	0.0341	B	10	0.0312	C	25	0.0313	D	50	0.0309	E	250	0.0284
	F	500	0.0286	G	750	0.0280	H	1000	0.0265	I	100	0.0274			
Benzene	A	1.0	0.820	B	2.0	0.794	C	5.0	0.904	D	10	0.885	E	50	0.990
	F	100	0.952	G	150	0.913	H	200	0.875	I	20	0.955			
Bromochloromethane	A	1.0	0.114	B	2.0	0.111	C	5.0	0.133	D	10	0.136	E	50	0.146
	F	100	0.145	G	150	0.148	H	200	0.145	I	20	0.142			
Bromodichloromethane	A	1.0	0.207	B	2.0	0.202	C	5.0	0.227	D	10	0.231	E	50	0.252
	F	100	0.246	G	150	0.244	H	200	0.233	I	20	0.241			
Bromoform	A	1.0	0.172	B	2.0	0.166	C	5.0	0.209	D	10	0.224	E	50	0.249
	F	100	0.246	G	150	0.236	H	200	0.224	I	20	0.232			
Bromomethane	A	1.0	0.172	B	2.0	0.160	C	5.0	0.182	D	10	0.184	E	50	0.217
	F	100	0.173	G	150	0.157	H	200	0.147	I	20	0.190			
Carbon Disulfide	A	5.0	0.669	B	10	0.622	C	25	0.755	D	50	0.708	E	250	0.796
	F	500	0.685	G	750	0.613	H	1000	0.560	I	100	0.787			
Carbon Tetrachloride	A	1.0	0.132	B	2.0	0.133	C	5.0	0.168	D	10	0.158	E	50	0.198
	F	100	0.195	G	150	0.190	H	200	0.193	I	20	0.178			
Chlorobenzene	A	1.0	1.44	B	2.0	1.39	C	5.0	1.57	D	10	1.54	E	50	1.56
	F	100	1.52	G	150	1.37	H	200	1.29	I	20	1.64			
Chloroethane	A	1.0	0.154	B	2.0	0.143	C	5.0	0.161	D	10	0.167	E	50	0.188
	F	100	0.162	G	150	0.150	H	200	0.143	I	20	0.178			
Chloroform	A	1.0	0.323	B	2.0	0.293	C	5.0	0.343	D	10	0.328	E	50	0.370
	F	100	0.368	G	150	0.370	H	200	0.357	I	20	0.350			
Chloromethane	A	1.0	0.306	B	2.0	0.286	C	5.0	0.324	D	10	0.314	E	50	0.389
	F	100	0.331	G	150	0.310	H	200	0.296	I	20	0.350			
cis-1,2-Dichloroethene	A	1.0	0.246	B	2.0	0.242	C	5.0	0.291	D	10	0.285	E	50	0.315
	F	100	0.310	G	150	0.308	H	200	0.301	I	20	0.307			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	0.867	B	2.0	0.838	C	5.0	0.964	D	10	0.976	E	50	0.970
	F	100	1.01	G	150	0.946	H	200	0.861	I	20	0.984			
Cyclohexane	A	1.0	0.302	B	2.0	0.267	C	5.0	0.366	D	10	0.311	E	50	0.419
	F	100	0.412	G	150	0.404	H	200	0.413	I	20	0.389			
Dibromochloromethane	A	1.0	0.442	B	2.0	0.394	C	5.0	0.445	D	10	0.461	E	50	0.462
	F	100	0.473	G	150	0.437	H	200	0.412	I	20	0.476			
Dibromofluoromethane	A	50	0.255	B	50	0.258	C	50	0.256	D	50	0.256	E	50	0.258
	F	50	0.260	G	50	0.261	H	50	0.255	I	50	0.256			
Dichlorodifluoromethane	A	1.0	0.110	B	2.0	0.138	C	5.0	0.165	D	10	0.155	E	50	0.201
	F	100	0.180	G	150	0.172	H	200	0.171	I	20	0.181			
Ethylbenzene	A	1.0	2.47	B	2.0	2.16	C	5.0	2.70	D	10	2.58	E	50	2.63
	F	100	2.56	G	150	2.23	H	200	2.03	I	20	2.78			
Isopropylbenzene	A	1.0	2.13	B	2.0	1.81	C	5.0	2.30	D	10	2.11	E	50	2.35
	F	100	2.21	G	150	2.04	H	200	1.94	I	20	2.39			
m,p-Xylenes	A	2.0	1.84	B	4.0	1.65	C	10	1.94	D	20	1.91	E	100	1.86
	F	200	1.67	G	300	1.42	H	400	1.26	I	40	2.04			
Methyl Acetate	A	1.0	0.314	B	2.0	0.285	C	5.0	0.285	D	10	0.294	E	50	0.296
	F	100	0.291	G	150	0.285	H	200	0.270	I	20	0.287			
Methyl tert-Butyl Ether	A	1.0	0.310	B	2.0	0.317	C	5.0	0.363	D	10	0.361	E	50	0.381
	F	100	0.376	G	150	0.374	H	200	0.377	I	20	0.359			
Methylene Chloride	A	1.0	0.228	B	2.0	0.210	C	5.0	0.255	D	10	0.243	E	50	0.278
	F	100	0.266	G	150	0.259	H	200	0.256	I	20	0.264			
o-Xylene	A	1.0	1.82	B	2.0	1.66	C	5.0	2.00	D	10	1.97	E	50	1.96
	F	100	1.85	G	150	1.63	H	200	1.43	I	20	2.02			
Styrene	A	1.0	1.51	B	2.0	1.37	C	5.0	1.63	D	10	1.63	E	50	1.61
	F	100	1.58	G	150	1.37	H	200	1.28	I	20	1.68			
Tetrachloroethene (PCE)	A	1.0	0.392	B	2.0	0.356	C	5.0	0.466	D	10	0.436	E	50	0.492
	F	100	0.500	G	150	0.461	H	200	0.441	I	20	0.511			
Toluene	A	1.0	2.37	B	2.0	2.18	C	5.0	2.58	D	10	2.43	E	50	2.54
	F	100	2.47	G	150	2.16	H	200	1.99	I	20	2.73			
Toluene-d8	A	50	2.41	B	50	2.43	C	50	2.45	D	50	2.48	E	50	2.35
	F	50	2.44	G	50	2.41	H	50	2.34	I	50	2.48			
trans-1,2-Dichloroethene	A	1.0	0.258	B	2.0	0.248	C	5.0	0.305	D	10	0.285	E	50	0.345
	F	100	0.338	G	150	0.333	H	200	0.326	I	20	0.324			
trans-1,3-Dichloropropene	A	1.0	0.620	B	2.0	0.584	C	5.0	0.677	D	10	0.694	E	50	0.674
	F	100	0.714	G	150	0.664	H	200	0.623	I	20	0.697			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.181	B	2.0	0.172	C	5.0	0.213	D	10	0.204	E	50	0.233
	F	100	0.228	G	150	0.221	H	200	0.209	I	20	0.224			
Trichlorofluoromethane				B	2.0	0.137	C	5.0	0.190	D	10	0.176	E	50	0.225
	F	100	0.216	G	150	0.209	H	200	0.206	I	20	0.205			
Trichlorotrifluoroethane	A	1.0	0.154	B	2.0	0.138	C	5.0	0.181	D	10	0.175	E	50	0.223
	F	100	0.197	G	150	0.186	H	200	0.187	I	20	0.202			
Vinyl Chloride	A	1.0	0.208	B	2.0	0.198	C	5.0	0.254	D	10	0.242	E	50	0.277
										I	20	0.272			

Results flagged with an asterisk (*) indicate values outside control criteria.

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.6		≤ 15	0.221		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	10.1		≤ 15	0.728		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	4.6		≤ 15	0.363		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.5		≤ 15	0.391		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	10.3		≤ 15	0.230		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	3.7		≤ 15	0.351		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.532		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	8.3		≤ 15	0.0760		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	5.6		≤ 15	0.403		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.5		≤ 15	1.09		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	6.6		≤ 15	0.139		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	1.8		≤ 15	0.145		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	6.4		≤ 15	0.227		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	9.8		≤ 15	1.20		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	7.2		≤ 15	1.22		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	9.2		≤ 15	0.0121		0.01
2-Hexanone	MS	AverageRF	% RSD	7.0		≤ 15	0.271		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	8.7		≤ 15	0.917		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.0		≤ 15	0.410		0.01
Acetone	MS	AverageRF	% RSD	8.2		≤ 15	0.0296		0.01
Benzene	MS	AverageRF	% RSD	7.1		≤ 15	0.899		0.01
Bromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	0.135		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.5		≤ 15	0.231		0.01
† Bromoform	MS	AverageRF	% RSD	13.8		≤ 15	0.218		0.1
Bromomethane	MS	AverageRF	% RSD	11.8		≤ 15	0.176		0.01
Carbon Disulfide	MS	AverageRF	% RSD	11.8		≤ 15	0.689		0.01
Carbon Tetrachloride	MS	Linear	R2	1.000		≥ 0.99	0.172		0.01
† Chlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	1.48		0.3
Chloroethane	MS	AverageRF	% RSD	9.6		≤ 15	0.161		0.01
‡ Chloroform	MS	AverageRF	% RSD	7.5		≤ 15	0.345		0.01
† Chloromethane	MS	AverageRF	% RSD	9.7		≤ 15	0.323		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	9.5		≤ 15	0.290		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	6.7		≤ 15	0.935		0.01
Cyclohexane	MS	Linear	R2	1.000		≥ 0.99	0.365		0.01
Dibromochloromethane	MS	AverageRF	% RSD	6.2		≤ 15	0.445		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	0.8		≤ 15	0.257		
Dichlorodifluoromethane	MS	Linear	R2	0.998		≥ 0.99	0.164		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	10.6		≤ 15	2.46		0.01
Isopropylbenzene	MS	AverageRF	% RSD	9.0		≤ 15	2.14		0.01
m,p-Xylenes	MS	AverageRF	% RSD	14.9		≤ 15	1.73		0.01
Methyl Acetate	MS	AverageRF	% RSD	4.1		≤ 15	0.290		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	7.3		≤ 15	0.358		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	AverageRF	% RSD	8.3		≤ 15	0.251		0.01
o-Xylene	MS	AverageRF	% RSD	11.2		≤ 15	1.81		0.01
Styrene	MS	AverageRF	% RSD	9.4		≤ 15	1.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	11.3		≤ 15	0.451		0.01
‡ Toluene	MS	AverageRF	% RSD	9.9		≤ 15	2.38		0.01
Toluene-d8	SURR	AverageRF	% RSD	2.1		≤ 15	2.42		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	11.5		≤ 15	0.307		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	6.5		≤ 15	0.661		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	10.0		≤ 15	0.209		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	14.3		≤ 15	0.196		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.8		≤ 15	0.183		0.01
‡ Vinyl Chloride	MS	Linear	R2	1.000		≥ 0.99	0.242		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

File ID: J:\MS53\DATA\MS53-120307\0307-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	0.489	0.523	7	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.221	0.234	6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	22	0.728	0.785	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.363	0.386	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.391	0.419	7	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.230	0.261	13	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	0.351	0.349	0	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	20	0.532	0.523	-2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	19	0.0760	0.0717	-6	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.403	0.427	6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	22	1.09	1.19	10	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	21	0.139	0.142	3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.227	0.240	6	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	22	1.20	1.35	12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	22	1.22	1.33	9	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	110	0.0121	0.0131	8	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.271	0.280	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	110	0.410	0.432	5	NA	± 30 %	AverageRF
Acetone	100	93	0.0296	0.0276	-7	NA	± 30 %	AverageRF
Benzene	20	22	0.899	0.979	9	NA	± 30 %	AverageRF
Bromochloromethane	20	21	0.135	0.143	6	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.231	0.244	5	NA	± 30 %	AverageRF
Bromoform	20	22	0.218	0.239	10	NA	± 30 %	AverageRF
Bromomethane	20	22	0.176	0.192	9	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.689	0.795	15	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.172	0.181	NA	-3	± 30 %	Linear
Chlorobenzene	20	22	1.48	1.62	10	NA	± 30 %	AverageRF
Chloroethane	20	22	0.161	0.175	9	NA	± 30 %	AverageRF
Chloroform	20	21	0.345	0.364	6	NA	± 30 %	AverageRF
Chloromethane	20	22	0.323	0.351	9	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.290	0.306	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	0.935	0.996	6	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.365	0.398	NA	0	± 30 %	Linear
Dibromochloromethane	20	21	0.445	0.478	7	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.164	0.164	NA	-11	± 30 %	Linear
Ethylbenzene	20	23	2.46	2.81	14	NA	± 30 %	AverageRF
Isopropylbenzene	20	23	2.14	2.41	13	NA	± 30 %	AverageRF
m,p-Xylenes	40	47	1.73	2.03	17	NA	± 30 %	AverageRF
Methyl Acetate	20	21	0.290	0.301	4	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.358	0.363	2	NA	± 30 %	AverageRF
Methylene Chloride	20	22	0.251	0.271	8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	23	1.81	2.07	14	NA	± 30 %	AverageRF
Styrene	20	22	1.52	1.70	12	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	23	0.451	0.515	14	NA	± 30 %	AverageRF
Toluene	20	23	2.38	2.71	14	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.307	0.328	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	21	0.661	0.696	5	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.209	0.229	10	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.196	0.206	5	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	22	0.183	0.199	9	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.242	0.264	NA	-2	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

File ID: J:\MS52\DATA\MS52-120322\0322-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	1.21	1.10	-9	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	18	0.01	0.786	0.715	-9	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	1.01	0.998	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.675	0.656	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	19	0.1	0.745	0.708	-5	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	17	0.01	0.629	0.526	-16	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	1.69	1.63	-4	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	0.01	1.92	1.86	-3	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.01	0.232	0.213	-8	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.878	0.824	-6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	18	0.01	2.42	2.22	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	18	0.01	0.536	0.491	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	50		0.251	0.251	0	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	19	0.01	0.396	0.378	-4	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	19	0.01	2.67	2.49	-7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	18	0.01	2.65	2.44	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.126	0.129	3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.01	0.514	0.521	1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	47		0.918	0.861	-6	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.01	0.729	0.733	1	NA	± 30 %	AverageRF
Acetone	100	98	0.01	0.0878	0.0782	NA	-2	± 30 %	Linear
Benzene	20	19	0.01	1.74	1.63	-6	NA	± 30 %	AverageRF
Bromochloromethane	20	20	0.01	0.265	0.260	-2	NA	± 30 %	AverageRF
Bromodichloromethane	20	18	0.01	0.592	0.536	-9	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.693	0.631	-9	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.267	0.247	-7	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	1.03	1.20	16	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.667	0.591	NA	-17	± 30 %	Linear
Chlorobenzene	20	19	0.3	3.32	3.19	-4	NA	± 30 %	AverageRF
Chloroethane	20	19	0.01	0.302	0.288	-4	NA	± 30 %	AverageRF
Chloroform	20	18	0.01	0.828	0.729	-12	NA	± 20 %	AverageRF
Chloromethane	20	17	0.1	0.551	0.480	-13	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	19	0.01	0.573	0.541	-6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	19	0.01	1.71	1.63	-5	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.684	0.674	-2	NA	± 30 %	AverageRF
Dibromochloromethane	20	18	0.01	1.09	0.995	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.241	0.238	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.01	0.554	0.489	-12	NA	± 30 %	AverageRF
Ethylbenzene	20	19	0.01	5.75	5.57	-3	NA	± 20 %	AverageRF
Isopropylbenzene	20	21	0.01	4.91	5.09	4	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	39	0.01	4.53	4.39	-3	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.510	0.509	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	1.08	1.05	-2	NA	± 30 %	AverageRF
Methylene Chloride	20	17	0.01	0.533	0.395	NA	-17	± 30 %	Linear
o-Xylene	20	19	0.01	4.72	4.49	-5	NA	± 30 %	AverageRF
Styrene	20	20	0.01	3.52	3.47	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.01	1.13	1.12	-1	NA	± 30 %	AverageRF
Toluene	20	19	0.01	5.02	4.81	-4	NA	± 20 %	AverageRF
Toluene-d8	50	51		2.48	2.51	1	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	18	0.01	0.609	0.556	-9	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	1.58	1.46	-8	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	19	0.01	0.516	0.490	-5	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	18	0.01	0.810	0.722	-11	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	17	0.01	0.405	0.353	-13	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.434	0.432	-1	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

File ID: J:\MS53\DATA\MS53-120330\0330-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.459	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.208	-6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.719	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.398	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.256	11	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	18	0.01	0.351	0.323	-8	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.468	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	15	0.01	0.0760	0.0577	-24	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.373	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	0.01	1.09	1.08	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.136	-2	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	49		0.145	0.144	-1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.238	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.22	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	0.01	1.22	1.26	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0127	5	NA	± 30 %	AverageRF
2-Hexanone	100	94	0.01	0.271	0.254	-6	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	54		0.917	0.993	8	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.384	-6	NA	± 30 %	AverageRF
Acetone	100	93	0.01	0.0296	0.0274	-7	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.927	3	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.132	-3	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.228	-2	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.218	0.201	-8	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.162	-8	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.172	0.159	NA	-15	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.160	0	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.338	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.378	17	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.296	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.934	0	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.387	NA	-2	± 30 %	Linear
Dibromochloromethane	20	19	0.01	0.445	0.411	-8	NA	± 30 %	AverageRF
Dibromofluoromethane	50	49		0.257	0.254	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.194	NA	6	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.49	1	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.50	17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.290	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.357	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.252	0	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.80	-1	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.50	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.428	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.33	-2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.299	-2	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	19	0.01	0.661	0.637	-4	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.207	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.183	0	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.278	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

File ID: J:\MS53\DATA\MS53-120402\0402-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.460	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.212	-4	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.729	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.352	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.399	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.01	0.230	0.263	14	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.470	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0614	-19	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	18	0.01	0.403	0.371	-8	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.02	-6	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	19	0.01	0.139	0.132	-5	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	47		0.145	0.137	-6	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.237	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.21	-1	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.01	0.0121	0.0118	-3	NA	± 30 %	AverageRF
2-Hexanone	100	92	0.01	0.271	0.249	-8	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	53		0.917	0.967	5	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.386	-6	NA	± 30 %	AverageRF
Acetone	100	88	0.01	0.0296	0.0261	-12	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.965	7	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.129	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.234	1	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.211	-3	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.176	0.165	-6	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	0.689	0.804	17	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.170	NA	-9	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.46	-1	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.163	1	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.336	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.375	16	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.01	0.290	0.305	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.946	1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.407	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.257	0.259	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.191	NA	5	± 30 %	Linear
Ethylbenzene	20	19	0.01	2.46	2.36	-4	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.43	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.283	-2	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.360	1	NA	± 30 %	AverageRF
Methylene Chloride	20	21	0.01	0.251	0.261	4	NA	± 30 %	AverageRF
o-Xylene	20	21	0.01	1.81	1.87	3	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.52	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.429	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.42	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.309	1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.653	-1	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.208	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.194	-1	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.186	2	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.242	0.276	NA	2	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

File ID: J:\MS53\DATA\MS53-120403\0403-03.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	0.489	0.451	-8	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.210	-5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.734	1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.1	0.391	0.401	3	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.251	9	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.481	-10	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0607	-20	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.375	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.05	-3	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.137	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	48		0.145	0.140	-3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.233	3	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.20	1.23	3	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.20	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0124	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.271	0.252	-7	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	51		0.917	0.942	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.385	-6	NA	± 30 %	AverageRF
Acetone	100	92	0.01	0.0296	0.0273	-8	NA	± 30 %	AverageRF
Benzene	20	20	0.01	0.899	0.915	2	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.128	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.01	0.231	0.238	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.202	-7	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.157	-11	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.166	NA	-11	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	21	0.01	0.161	0.165	3	NA	± 30 %	AverageRF
Chloroform	20	19	0.01	0.345	0.329	-5	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.369	14	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.289	0	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.922	-1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.406	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48		0.257	0.248	-4	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.189	NA	4	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.51	2	NA	± 20 %	AverageRF
Isopropylbenzene	20	22	0.01	2.14	2.38	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.78	3	NA	± 30 %	AverageRF
Methyl Acetate	20	19	0.01	0.290	0.272	-6	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.358	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.246	-2	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.82	0	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.51	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.420	-7	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.44	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.31	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.304	-1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.651	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.206	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.01	0.183	0.192	5	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.280	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200306
Instrument ID: MS52

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0322-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200306-1	3/22/2012	09:17		3/22/2012	09:32
\0322-02.D	Continuing Calibration Verification	JWG1200306-2	3/22/2012	09:45		3/22/2012	10:00
\0322-03.D	Lab Control Sample	JWG1200305-1	3/22/2012	10:14		3/22/2012	10:29
\0322-05.D	Method Blank	JWG1200305-2	3/22/2012	11:28		3/22/2012	11:43
\0322-19.D	CRHE-188849-IDW-03212012	J1201360-025	3/22/2012	18:20		3/22/2012	18:35
\0322-20.D	CRHE-188797-IDW-03212012	J1201360-026	3/22/2012	18:48		3/22/2012	19:03
\0322-21.D	CRHE-188842-IDW-03212012	J1201360-027	3/22/2012	19:17		3/22/2012	19:32
\0322-22.D	CRHE-188838-IDW-03212012	J1201360-028	3/22/2012	19:45		3/22/2012	20:00

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200322
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0330-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200322-1	3/30/2012	10:42		3/30/2012	10:57
\0330-02.D	Continuing Calibration Verification	JWG1200322-2	3/30/2012	11:12		3/30/2012	11:27
\0330-03.D	Lab Control Sample	JWG1200321-1	3/30/2012	11:42		3/30/2012	11:57
\0330-06.D	Method Blank	JWG1200321-2	3/30/2012	13:10		3/30/2012	13:25
\0330-07.D	CRHE-MW0032-045.0-03192012	J1201360-001	3/30/2012	13:40		3/30/2012	13:55
\0330-08.D	CRHE-MW0030-010.0-03192012	J1201360-002	3/30/2012	14:10		3/30/2012	14:25
\0330-09.D	CRHE-MW0023-065.0-03192012	J1201360-003	3/30/2012	14:40		3/30/2012	14:55
\0330-10.D	CRHE-MW0031-045.0-03192012	J1201360-004	3/30/2012	15:09		3/30/2012	15:24
\0330-11.D	CRHE-IW0020I-045.0-03192012	J1201360-005	3/30/2012	15:39		3/30/2012	15:54
\0330-12.D	CRHE-MW0039-030.0-03192012	J1201360-006	3/30/2012	16:09		3/30/2012	16:24
\0330-13.D	CRHE-MW0038-010.0-03192012	J1201360-007	3/30/2012	16:39		3/30/2012	16:54
\0330-14.D	EB01-03192012	J1201360-008	3/30/2012	17:09		3/30/2012	17:24
\0330-15.D	CRHE-IW0015I-040.0-03192012	J1201360-009	3/30/2012	17:39		3/30/2012	17:54
\0330-16.D	CRHE-MW0034-038.5-03202012	J1201360-010	3/30/2012	18:09		3/30/2012	18:24
\0330-17.D	CRHE-IW0019I-040.0-03202012	J1201360-011	3/30/2012	18:39		3/30/2012	18:54
\0330-18.D	CRHE-MW0033-048.5-03202012	J1201360-012	3/30/2012	19:09		3/30/2012	19:24
\0330-19.D	CRHE-IW0021I-045.0-03202012	J1201360-013	3/30/2012	19:39		3/30/2012	19:54
\0330-20.D	CRHE-MW0035-045.0-03202012	J1201360-014	3/30/2012	20:09		3/30/2012	20:24
\0330-21.D	CRHE-MW0028-040.0-03202012	J1201360-015	3/30/2012	20:39		3/30/2012	20:54
\0330-22.D	CRHE-MW0037-030.0-03202012	J1201360-016	3/30/2012	21:08		3/30/2012	21:23
\0330-23.D	CRHE-IW0017I-030.0-03202012	J1201360-017	3/30/2012	21:38		3/30/2012	21:53

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B
Analysis Lot: JWG1200326
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0402-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200326-1	4/2/2012	08:51		4/2/2012	09:06
\0402-02.D	Continuing Calibration Verification	JWG1200326-2	4/2/2012	09:21		4/2/2012	09:36
\0402-03.D	Lab Control Sample	JWG1200325-1	4/2/2012	09:51		4/2/2012	10:06
\0402-06.D	Method Blank	JWG1200325-2	4/2/2012	11:20		4/2/2012	11:35
\0402-07.D	Trip Blank	J1201360-029	4/2/2012	11:50		4/2/2012	12:05
\0402-08.D	CRHE-MW0032-045.0-03192012	J1201360-001	4/2/2012	12:20		4/2/2012	12:35
\0402-09.D	CRHE-MW0031-045.0-03192012	J1201360-004	4/2/2012	12:49		4/2/2012	13:04
\0402-10.D	CRHE-IW0020I-045.0-03192012	J1201360-005	4/2/2012	13:20		4/2/2012	13:35
\0402-11.D	CRHE-MW0039-030.0-03192012	J1201360-006	4/2/2012	13:50		4/2/2012	14:05
\0402-12.D	CRHE-MW0034-038.5-03202012	J1201360-010	4/2/2012	14:20		4/2/2012	14:35
\0402-13.D	CRHE-IW0019I-040.0-03202012	J1201360-011	4/2/2012	14:50		4/2/2012	15:05
\0402-14.D	CRHE-MW0035-045.0-03202012	J1201360-014	4/2/2012	15:19		4/2/2012	15:34
\0402-15.D	CRHE-MW0028-040.0-03202012	J1201360-015	4/2/2012	15:49		4/2/2012	16:04
\0402-16.D	CRHE-IW0017I-030.0-03202012	J1201360-017	4/2/2012	16:19		4/2/2012	16:34
\0402-17.D	CRHE-MW0027-045.0-03212012	J1201360-022	4/2/2012	16:49		4/2/2012	17:04
\0402-18.D	CRHE-MW0022-065.0-03212012	J1201360-021	4/2/2012	17:19		4/2/2012	17:34
\0402-19.D	CRHE-MW0026-035.0-03212012	J1201360-020	4/2/2012	17:49		4/2/2012	18:04
\0402-20.D	CRHE-MW0029-045.0-03212012	J1201360-019	4/2/2012	18:19		4/2/2012	18:34
\0402-21.D	CRHE-IW0014I-040.0-03212012	J1201360-018	4/2/2012	18:49		4/2/2012	19:04
\0402-22.D	CRHE-MW0024-010.0-03212012	J1201360-023	4/2/2012	19:19		4/2/2012	19:34

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200334
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0403-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200334-1	4/3/2012	10:53		4/3/2012	11:08
\0403-03.D	Continuing Calibration Verification	JWG1200334-2	4/3/2012	11:53		4/3/2012	12:08
\0403-04.D	Lab Control Sample	JWG1200333-3	4/3/2012	12:25		4/3/2012	12:40
\0403-07.D	Method Blank	JWG1200333-4	4/3/2012	13:53		4/3/2012	14:08
\0403-08.D	CRHE-IW0014I-040.0-03212012	J1201360-018	4/3/2012	14:23		4/3/2012	14:38
\0403-09.D	CRHE-MW0022-065.0-03212012	J1201360-021	4/3/2012	14:52		4/3/2012	15:07
\0403-10.D	CRHE-MW0029-045.0-03212012	J1201360-019	4/3/2012	15:22		4/3/2012	15:37
\0403-11.D	CRHE-MW0026-035.0-03212012	J1201360-020	4/3/2012	15:51		4/3/2012	16:06
\0403-12.D	CRHE-MW0027-045.0-03212012	J1201360-022	4/3/2012	16:21		4/3/2012	16:36
\0403-13.D	CHRE-MW0036-010.0-03202012	J1201360-030	4/3/2012	16:50		4/3/2012	17:05
\0403-14.D	CRHE-MW0025-030.0-03212012	J1201360-024	4/3/2012	17:20		4/3/2012	17:35
\0403-16.D	CRHE-MW0025-030.0-03212012	J1201360-024	4/3/2012	18:18		4/3/2012	18:33
\0403-17.D	ZZZZZZ	ZZZZZZ	4/3/2012	18:48		4/3/2012	19:03
\0403-18.D	ZZZZZZ	ZZZZZZ	4/3/2012	19:17		4/3/2012	19:32
\0403-19.D	ZZZZZZ	ZZZZZZ	4/3/2012	19:46		4/3/2012	20:01
\0403-20.D	ZZZZZZ	ZZZZZZ	4/3/2012	20:16		4/3/2012	20:31
\0403-21.D	ZZZZZZ	ZZZZZZ	4/3/2012	20:46		4/3/2012	21:01
\0403-22.D	ZZZZZZ	ZZZZZZ	4/3/2012	21:15		4/3/2012	21:30
\0403-23.D	ZZZZZZ	ZZZZZZ	4/3/2012	21:45		4/3/2012	22:00
\0403-24.D	ZZZZZZ	ZZZZZZ	4/3/2012	22:15		4/3/2012	22:30
\0403-26.D	ZZZZZZ	ZZZZZZ	4/3/2012	23:14		4/3/2012	23:29
\0403-27.D	ZZZZZZ	ZZZZZZ	4/3/2012	23:44		4/3/2012	23:59

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200321
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-MW0032-045.0-03192(	J1201360-001	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0030-010.0-03192(	J1201360-002	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0023-065.0-03192(	J1201360-003	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0031-045.0-03192(	J1201360-004	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0020I-045.0-031920	J1201360-005	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0039-030.0-03192(	J1201360-006	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0038-010.0-03192(	J1201360-007	03/19/12	03/22/12	10ml	10ml	NA	
EB01-03192012	J1201360-008	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0015I-040.0-031920	J1201360-009	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0034-038.5-03202(	J1201360-010	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0019I-040.0-032020	J1201360-011	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0033-048.5-03202(	J1201360-012	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0021I-045.0-032020	J1201360-013	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0035-045.0-03202(	J1201360-014	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0028-040.0-03202(	J1201360-015	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0037-030.0-03202(	J1201360-016	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0017I-030.0-032020	J1201360-017	03/20/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200321-2	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200321-1	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200325
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-MW0032-045.0-03192(	J1201360-001	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0031-045.0-03192(	J1201360-004	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0020I-045.0-031920	J1201360-005	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0039-030.0-03192(	J1201360-006	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0034-038.5-03202(	J1201360-010	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0019I-040.0-032020	J1201360-011	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0035-045.0-03202(	J1201360-014	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0028-040.0-03202(	J1201360-015	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0017I-030.0-032020	J1201360-017	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0014I-040.0-032120	J1201360-018	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0029-045.0-03212(	J1201360-019	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0026-035.0-03212(	J1201360-020	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0022-065.0-03212(	J1201360-021	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0027-045.0-03212(	J1201360-022	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0024-010.0-03212(	J1201360-023	03/21/12	03/22/12	10ml	10ml	NA	
Trip Blank	J1201360-029	03/19/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200325-2	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200325-1	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200333
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-IW0014I-040.0-032120	J1201360-018	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0029-045.0-03212C	J1201360-019	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0026-035.0-03212C	J1201360-020	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0022-065.0-03212C	J1201360-021	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0027-045.0-03212C	J1201360-022	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0025-030.0-03212C	J1201360-024	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0025-030.0-03212C	J1201360-024	03/21/12	03/22/12	10ml	10ml	NA	
CHRE-MW0036-010.0-03202C	J1201360-030	03/20/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200333-4	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200333-3	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Extraction Lot: JWG1200305
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-188849-IDW-03212012	J1201360-025	03/21/12	03/22/12	5.9300g	5mL	84	
CRHE-188797-IDW-03212012	J1201360-026	03/21/12	03/22/12	5.1200g	5mL	88	
CRHE-188842-IDW-03212012	J1201360-027	03/21/12	03/22/12	5.9600g	5mL	83	
CRHE-188838-IDW-03212012	J1201360-028	03/21/12	03/22/12	5.3500g	5mL	81	
Method Blank	JWG1200305-2	NA	NA	5.00g	5ml	100	
Lab Control Sample	JWG1200305-1	NA	NA	5.00g	5ml	100	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

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Volatile Organic Compounds by GC/MS

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Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

QC Reports

p:\Stealth\Crystal.rpt\DividerC.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-MW0032-045.0-03192012	J1201360-001	97	109	99	98
CRHE-MW0030-010.0-03192012	J1201360-002	98	106	98	101
CRHE-MW0023-065.0-03192012	J1201360-003	100	107	99	96
CRHE-MW0031-045.0-03192012	J1201360-004	97	106	100	98
CRHE-IW0020I-045.0-03192012	J1201360-005	96	107	100	99
CRHE-MW0039-030.0-03192012	J1201360-006	99	113	99	97
CRHE-MW0038-010.0-03192012	J1201360-007	100	109	100	100
EB01-03192012	J1201360-008	97	106	99	101
CRHE-IW0015I-040.0-03192012	J1201360-009	101	107	99	100
CRHE-MW0034-038.5-03202012	J1201360-010	99	109	101	98
CRHE-IW0019I-040.0-03202012	J1201360-011	98	105	97	102
CRHE-MW0033-048.5-03202012	J1201360-012	96	109	96	103
CRHE-IW0021I-045.0-03202012	J1201360-013	99	109	99	99
CRHE-MW0035-045.0-03202012	J1201360-014	99	108	98	96
CRHE-MW0028-040.0-03202012	J1201360-015	95	110	98	98
CRHE-MW0037-030.0-03202012	J1201360-016	97	107	99	98
CRHE-IW0017I-030.0-03202012	J1201360-017	97	108	99	100
CRHE-IW0014I-040.0-03212012	J1201360-018	94	107	97	99
CRHE-MW0029-045.0-03212012	J1201360-019	98	112	99	100
CRHE-MW0026-035.0-03212012	J1201360-020	99	108	95	96
CRHE-MW0022-065.0-03212012	J1201360-021	99	107	99	98
CRHE-MW0027-045.0-03212012	J1201360-022	96	107	98	96
CRHE-MW0024-010.0-03212012	J1201360-023	98	107	99	98
CRHE-MW0025-030.0-03212012	J1201360-024	97	111	92	98
Trip Blank	J1201360-029	94	111	97	96
CHRE-MW0036-010.0-03202012	J1201360-030	97	111	97	100
Method Blank	JWG1200321-2	98	105	100	95
Method Blank	JWG1200325-2	99	105	99	98
Method Blank	JWG1200333-4	96	103	97	96
Lab Control Sample	JWG1200321-1	99	107	99	100
Lab Control Sample	JWG1200325-1	94	104	98	97
Lab Control Sample	JWG1200333-3	95	109	97	96

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	72-121
Sur2 =	4-Bromofluorobenzene	86-113
Sur3 =	Dibromofluoromethane	86-112
Sur4 =	Toluene-d8	88-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-188849-IDW-03212012	J1201360-025	94	99	96	101
CRHE-188797-IDW-03212012	J1201360-026	92	102	96	105
CRHE-188842-IDW-03212012	J1201360-027	90	103	91	105
CRHE-188838-IDW-03212012	J1201360-028	94	116	99	108
Method Blank	JWG1200305-2	94	95	96	102
Lab Control Sample	JWG1200305-1	94	97	98	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	80-120
Sur2 = 4-Bromofluorobenzene	64-135
Sur3 = Dibromofluoromethane	74-125
Sur4 = Toluene-d8	46-156

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-02.D
Instrument ID: MS52
Analysis Method: 8260B

Lab Code: JWG1200306-2
Analysis Lot: JWG1200306

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	53,457	11.60	47,863	9.16	122,997	6.17
	Upper Limit ==>	106,914	12.10	95,726	9.66	245,994	6.67
	Lower Limit ==>	26,729	11.10	23,932	8.66	61,499	5.67
	ICAL Result ==>	48,766	11.60	43,592	9.16	110,750	6.17
Associated Analyses							
Lab Control Sample	JWG1200305-1	52,658	11.60	48,614	9.16	125,564	6.17
Method Blank	JWG1200305-2	50,853	11.59	47,975	9.16	125,218	6.17
CRHE-188849-IDW-03212012	J1201360-025	45,168	11.60	46,360	9.16	121,432	6.17
CRHE-188797-IDW-03212012	J1201360-026	40,555	11.60	43,358	9.16	116,772	6.17
CRHE-188842-IDW-03212012	J1201360-027	40,415	11.60	42,767	9.17	117,887	6.17
CRHE-188838-IDW-03212012	J1201360-028	35,955	11.60	42,626	9.16	118,248	6.18

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200322-2
Analysis Lot: JWG1200322

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	328,039	11.12	413,475	8.80	1,184,883	5.51
	Upper Limit ==>	656,078	11.62	826,950	9.30	2,369,766	6.01
	Lower Limit ==>	164,020	10.62	206,738	8.30	592,442	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200321-1	318,654	11.12	397,222	8.80	1,171,291	5.51
Method Blank	JWG1200321-2	337,907	11.13	403,441	8.80	1,145,808	5.51
CRHE-MW0032-045.0-03192012	J1201360-001	315,754	11.13	399,126	8.80	1,148,047	5.51
CRHE-MW0030-010.0-03192012	J1201360-002	323,166	11.13	392,864	8.80	1,177,874	5.51
CRHE-MW0023-065.0-03192012	J1201360-003	322,551	11.13	384,128	8.80	1,104,427	5.52
CRHE-MW0031-045.0-03192012	J1201360-004	331,420	11.13	396,550	8.80	1,156,645	5.51
CRHE-IW0020I-045.0-03192012	J1201360-005	322,585	11.13	393,897	8.80	1,164,407	5.51
CRHE-MW0039-030.0-03192012	J1201360-006	319,516	11.13	401,946	8.80	1,172,242	5.51
CRHE-MW0038-010.0-03192012	J1201360-007	327,430	11.13	405,589	8.80	1,173,486	5.51
EB01-03192012	J1201360-008	330,521	11.13	389,632	8.80	1,146,764	5.51
CRHE-IW0015I-040.0-03192012	J1201360-009	332,367	11.13	389,217	8.80	1,147,109	5.52
CRHE-MW0034-038.5-03202012	J1201360-010	321,006	11.13	397,996	8.80	1,125,602	5.52
CRHE-IW0019I-040.0-03202012	J1201360-011	316,893	11.13	382,659	8.80	1,133,176	5.51
CRHE-MW0033-048.5-03202012	J1201360-012	324,878	11.13	388,136	8.80	1,169,094	5.52
CRHE-IW0021I-045.0-03202012	J1201360-013	320,327	11.13	393,071	8.80	1,149,686	5.51
CRHE-MW0035-045.0-03202012	J1201360-014	330,706	11.12	409,470	8.80	1,174,443	5.52
CRHE-MW0028-040.0-03202012	J1201360-015	319,532	11.13	409,711	8.80	1,202,891	5.51
CRHE-MW0037-030.0-03202012	J1201360-016	322,399	11.13	400,508	8.80	1,144,939	5.51
CRHE-IW0017I-030.0-03202012	J1201360-017	326,036	11.12	400,878	8.80	1,158,793	5.51

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 09:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200326-2
Analysis Lot: JWG1200326

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	338,282	11.13	419,066	8.80	1,182,437	5.51
	Upper Limit ==>	676,564	11.63	838,132	9.30	2,364,874	6.01
	Lower Limit ==>	169,141	10.63	209,533	8.30	591,219	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200325-1	322,206	11.13	386,918	8.80	1,106,267	5.51
Method Blank	JWG1200325-2	322,051	11.13	383,241	8.80	1,093,788	5.51
Trip Blank	J1201360-029	314,454	11.13	402,969	8.80	1,172,678	5.51
CRHE-MW0032-045.0-03192012D	J1201360-001	317,812	11.13	379,377	8.80	1,119,988	5.51
CRHE-MW0031-045.0-03192012D	J1201360-004	322,770	11.13	395,883	8.80	1,159,224	5.51
CRHE-IW0020I-045.0-03192012D	J1201360-005	319,432	11.13	390,271	8.80	1,120,582	5.51
CRHE-MW0039-030.0-03192012D	J1201360-006	325,142	11.13	389,370	8.80	1,108,624	5.51
CRHE-MW0034-038.5-03202012D	J1201360-010	327,008	11.13	395,803	8.80	1,096,028	5.51
CRHE-IW0019I-040.0-03202012D	J1201360-011	319,532	11.13	392,191	8.80	1,116,694	5.51
CRHE-MW0035-045.0-03202012D	J1201360-014	317,749	11.13	383,466	8.80	1,119,903	5.52
CRHE-MW0028-040.0-03202012D	J1201360-015	320,292	11.13	385,204	8.80	1,151,728	5.51
CRHE-IW0017I-030.0-03202012D	J1201360-017	313,536	11.13	395,840	8.80	1,123,689	5.51
CRHE-MW0027-045.0-03212012	J1201360-022	316,218	11.13	402,165	8.80	1,116,092	5.52
CRHE-MW0022-065.0-03212012	J1201360-021	332,100	11.13	405,929	8.80	1,179,725	5.52
CRHE-MW0026-035.0-03212012	J1201360-020	326,026	11.13	414,330	8.80	1,170,714	5.52
CRHE-MW0029-045.0-03212012	J1201360-019	314,676	11.13	399,293	8.80	1,157,084	5.52
CRHE-IW0014I-040.0-03212012	J1201360-018	324,993	11.13	393,830	8.80	1,133,953	5.52
CRHE-MW0024-010.0-03212012	J1201360-023	318,409	11.13	384,678	8.80	1,105,383	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 11:53

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-03.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200334-2
Analysis Lot: JWG1200334

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	317,277	11.13	383,361	8.80	1,079,939	5.51
	Upper Limit ==>	634,554	11.63	766,722	9.30	2,159,878	6.01
	Lower Limit ==>	158,639	10.63	191,681	8.30	539,970	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200333-3	309,433	11.13	402,331	8.80	1,130,474	5.51
Method Blank	JWG1200333-4	316,138	11.13	389,420	8.80	1,095,457	5.51
CRHE-IW0014I-040.0-03212012RI	J1201360-018	316,659	11.13	370,802	8.80	1,091,211	5.51
CRHE-MW0022-065.0-03212012R	J1201360-021	315,576	11.13	390,002	8.80	1,108,138	5.51
CRHE-MW0029-045.0-03212012D	J1201360-019	301,400	11.13	375,955	8.80	1,085,571	5.51
CRHE-MW0026-035.0-03212012D	J1201360-020	304,045	11.12	375,196	8.80	1,067,834	5.51
CRHE-MW0027-045.0-03212012D	J1201360-022	304,830	11.12	381,443	8.80	1,056,074	5.51
CHRE-MW0036-010.0-03202012	J1201360-030	307,096	11.13	380,864	8.80	1,120,196	5.51
CRHE-MW0025-030.0-03212012	J1201360-024	305,472	11.13	384,814	8.80	1,106,582	5.51
CRHE-MW0025-030.0-03212012D	J1201360-024	313,276	11.13	402,002	8.80	1,159,827	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

	Lab Control Sample JWG1200321-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	19.8	20.0	99	77-118
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	70-122
1,1,2,2-Tetrachloroethane	20.3	20.0	102	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	20.5	20.0	103	79-117
1,1-Dichloroethene	23.0	20.0	115	72-128
1,2,3-Trichlorobenzene	20.7	20.0	104	62-136
1,2,4-Trichlorobenzene	19.2	20.0	96	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.5	20.0	82	60-122
1,2-Dibromoethane (EDB)	18.7	20.0	93	76-118
1,2-Dichlorobenzene	20.5	20.0	103	81-115
1,2-Dichloroethane (EDC)	19.9	20.0	100	70-117
1,2-Dichloropropane	21.6	20.0	108	79-117
1,3-Dichlorobenzene	21.5	20.0	107	82-116
1,4-Dichlorobenzene	20.9	20.0	105	82-115
2-Butanone (MEK)	102	100	102	62-138
2-Hexanone	93.2	100	93	74-127
4-Methyl-2-pentanone (MIBK)	96.1	100	96	77-120
Acetone	88.3	100	88	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.6	20.0	98	78-118
Bromodichloromethane	20.2	20.0	101	75-118
Bromoform	19.2	20.0	96	63-121
Bromomethane	19.1	20.0	95	31-153
Carbon Disulfide	119	100	119	72-128
Carbon Tetrachloride	18.3	20.0	91	67-124
Chlorobenzene	20.7	20.0	103	83-118
Chloroethane	21.5	20.0	107	68-132
Chloroform	19.6	20.0	98	77-116
Chloromethane	24.8	20.0	124	60-128
cis-1,2-Dichloroethene	21.5	20.0	108	78-117
cis-1,3-Dichloropropene	20.9	20.0	105	80-119
Cyclohexane	20.3	20.0	102	75-124
Dibromochloromethane	19.4	20.0	97	74-121
Dichlorodifluoromethane	22.1	20.0	111	49-132
Ethylbenzene	21.8	20.0	109	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	24.0	20.0	120 *	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	19.4	20.0	97	50-137
Methyl tert-Butyl Ether	20.0	20.0	100	73-118
Methylene Chloride	20.5	20.0	103	75-123
o-Xylene	21.3	20.0	106	80-119
Styrene	20.9	20.0	105	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	20.9	20.0	104	75-121
trans-1,3-Dichloropropene	19.7	20.0	98	76-118
Trichloroethene (TCE)	20.6	20.0	103	78-122
Trichlorofluoromethane	20.3	20.0	101	58-134
Trichlorotrifluoroethane	21.4	20.0	107	77-128
Vinyl Chloride	21.4	20.0	107	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

	Lab Control Sample JWG1200325-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	19.4	20.0	97	77-118
1,1,1-Trichloroethane (TCA)	20.2	20.0	101	70-122
1,1,2,2-Tetrachloroethane	21.1	20.0	106	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	21.2	20.0	106	79-117
1,1-Dichloroethene	23.6	20.0	118	72-128
1,2,3-Trichlorobenzene	19.5	20.0	98	62-136
1,2,4-Trichlorobenzene	18.7	20.0	93	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.7	20.0	83	60-122
1,2-Dibromoethane (EDB)	19.1	20.0	96	76-118
1,2-Dichlorobenzene	20.3	20.0	101	81-115
1,2-Dichloroethane (EDC)	19.8	20.0	99	70-117
1,2-Dichloropropane	21.5	20.0	108	79-117
1,3-Dichlorobenzene	21.0	20.0	105	82-116
1,4-Dichlorobenzene	21.0	20.0	105	82-115
2-Butanone (MEK)	99.8	100	100	62-138
2-Hexanone	94.3	100	94	74-127
4-Methyl-2-pentanone (MIBK)	95.0	100	95	77-120
Acetone	86.2	100	86	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.4	20.0	97	78-118
Bromodichloromethane	20.9	20.0	104	75-118
Bromoform	20.2	20.0	101	63-121
Bromomethane	19.4	20.0	97	31-153
Carbon Disulfide	121	100	121	72-128
Carbon Tetrachloride	19.3	20.0	96	67-124
Chlorobenzene	20.3	20.0	101	83-118
Chloroethane	22.3	20.0	112	68-132
Chloroform	20.5	20.0	102	77-116
Chloromethane	25.2	20.0	126	60-128
cis-1,2-Dichloroethene	21.7	20.0	108	78-117
cis-1,3-Dichloropropene	20.7	20.0	104	80-119
Cyclohexane	20.8	20.0	104	75-124
Dibromochloromethane	19.5	20.0	97	74-121
Dichlorodifluoromethane	22.3	20.0	111	49-132
Ethylbenzene	21.1	20.0	105	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	23.8	20.0	119	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	18.4	20.0	92	50-137
Methyl tert-Butyl Ether	20.8	20.0	104	73-118
Methylene Chloride	21.2	20.0	106	75-123
o-Xylene	21.4	20.0	107	80-119
Styrene	21.2	20.0	106	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	21.2	20.0	106	75-121
trans-1,3-Dichloropropene	19.9	20.0	100	76-118
Trichloroethene (TCE)	20.8	20.0	104	78-122
Trichlorofluoromethane	21.2	20.0	106	58-134
Trichlorotrifluoroethane	22.4	20.0	112	77-128
Vinyl Chloride	22.0	20.0	110	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	77-118
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	70-122
1,1,2,2-Tetrachloroethane	19.6	20.0	98	66-135
1,1,2-Trichloroethane	19.4	20.0	97	75-122
1,1-Dichloroethane	20.4	20.0	102	79-117
1,1-Dichloroethene	22.4	20.0	112	72-128
1,2,3-Trichlorobenzene	19.2	20.0	96	62-136
1,2,4-Trichlorobenzene	17.9	20.0	89	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.1	20.0	81	60-122
1,2-Dibromoethane (EDB)	18.2	20.0	91	76-118
1,2-Dichlorobenzene	19.6	20.0	98	81-115
1,2-Dichloroethane (EDC)	20.0	20.0	100	70-117
1,2-Dichloropropane	21.1	20.0	105	79-117
1,3-Dichlorobenzene	20.9	20.0	105	82-116
1,4-Dichlorobenzene	20.4	20.0	102	82-115
2-Butanone (MEK)	98.5	100	99	62-138
2-Hexanone	91.0	100	91	74-127
4-Methyl-2-pentanone (MIBK)	92.1	100	92	77-120
Acetone	90.0	100	90	42-161
Benzene	20.5	20.0	102	80-117
Bromochloromethane	18.7	20.0	94	78-118
Bromodichloromethane	20.6	20.0	103	75-118
Bromoform	18.3	20.0	92	63-121
Bromomethane	17.8	20.0	89	31-153
Carbon Disulfide	114	100	114	72-128
Carbon Tetrachloride	17.7	20.0	88	67-124
Chlorobenzene	19.7	20.0	98	83-118
Chloroethane	19.9	20.0	100	68-132
Chloroform	19.7	20.0	98	77-116
Chloromethane	21.6	20.0	108	60-128
cis-1,2-Dichloroethene	20.9	20.0	104	78-117
cis-1,3-Dichloropropene	19.6	20.0	98	80-119
Cyclohexane	19.8	20.0	99	75-124
Dibromochloromethane	18.4	20.0	92	74-121
Dichlorodifluoromethane	19.8	20.0	99	49-132
Ethylbenzene	20.8	20.0	104	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

	Lab Control Sample JWG1200333-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.1	20.0	120 *	78-119
m,p-Xylenes	41.0	40.0	102	79-122
Methyl Acetate	19.1	20.0	95	50-137
Methyl tert-Butyl Ether	19.8	20.0	99	73-118
Methylene Chloride	20.0	20.0	100	75-123
o-Xylene	20.2	20.0	101	80-119
Styrene	19.9	20.0	99	80-121
Tetrachloroethene (PCE)	18.9	20.0	94	75-126
Toluene	20.0	20.0	100	52-152
trans-1,2-Dichloroethene	20.1	20.0	100	75-121
trans-1,3-Dichloropropene	19.3	20.0	96	76-118
Trichloroethene (TCE)	20.3	20.0	101	78-122
Trichlorofluoromethane	18.9	20.0	95	58-134
Trichlorotrifluoroethane	20.0	20.0	100	77-128
Vinyl Chloride	19.6	20.0	98	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.1	20.0	90	71-124
1,1,1-Trichloroethane (TCA)	17.4	20.0	87	72-131
1,1,2,2-Tetrachloroethane	17.4	20.0	87	51-136
1,1,2-Trichloroethane	18.4	20.0	92	74-113
1,1-Dichloroethane	18.3	20.0	92	74-124
1,1-Dichloroethene	16.0	20.0	80	67-128
1,2,3-Trichlorobenzene	18.9	20.0	94	64-129
1,2,4-Trichlorobenzene	18.7	20.0	93	61-135
1,2-Dibromo-3-chloropropane (DBCP)	17.4	20.0	87	54-129
1,2-Dibromoethane (EDB)	18.2	20.0	91	74-114
1,2-Dichlorobenzene	18.6	20.0	93	74-111
1,2-Dichloroethane (EDC)	17.7	20.0	88	74-120
1,2-Dichloropropane	18.3	20.0	91	77-119
1,3-Dichlorobenzene	18.5	20.0	93	74-114
1,4-Dichlorobenzene	18.7	20.0	93	72-112
2-Butanone (MEK)	87.5	100	87	55-136
2-Hexanone	88.0	100	88	60-127
4-Methyl-2-pentanone (MIBK)	90.1	100	90	64-122
Acetone	83.4	100	83	30-164
Benzene	18.2	20.0	91	76-123
Bromochloromethane	19.0	20.0	95	75-124
Bromodichloromethane	17.1	20.0	85	74-124
Bromoform	16.8	20.0	84	58-126
Bromomethane	18.5	20.0	92	25-175
Carbon Disulfide	110	100	110	62-134
Carbon Tetrachloride	16.0	20.0	80	68-134
Chlorobenzene	19.0	20.0	95	74-116
Chloroethane	17.5	20.0	88	64-131
Chloroform	17.1	20.0	86	75-120
Chloromethane	16.6	20.0	83	59-138
cis-1,2-Dichloroethene	18.4	20.0	92	74-122
cis-1,3-Dichloropropene	18.5	20.0	93	75-115
Cyclohexane	19.3	20.0	96	70-127
Dibromochloromethane	16.7	20.0	83	67-123
Dichlorodifluoromethane	17.1	20.0	86	51-150
Ethylbenzene	18.9	20.0	95	71-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

Analyte Name	Lab Control Sample JWG1200305-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	20.9	20.0	105	67-124
m,p-Xylenes	38.0	40.0	95	71-122
Methyl Acetate	16.6	20.0	83	25-160
Methyl tert-Butyl Ether	18.1	20.0	90	72-121
Methylene Chloride	16.6	20.0	83	60-140
o-Xylene	18.3	20.0	92	71-120
Styrene	19.1	20.0	95	70-122
Tetrachloroethene (PCE)	18.9	20.0	95	69-124
Toluene	18.7	20.0	93	72-118
trans-1,2-Dichloroethene	17.6	20.0	88	71-127
trans-1,3-Dichloropropene	17.6	20.0	88	73-115
Trichloroethene (TCE)	18.4	20.0	92	70-129
Trichlorofluoromethane	17.4	20.0	87	67-129
Trichlorotrifluoroethane	17.7	20.0	89	66-131
Vinyl Chloride	18.9	20.0	95	62-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 13:10

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-06.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/12	11:42
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 11:20

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-06.D

Level: Low
Extraction Lot: JWG1200325

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/12	09:51
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	04/03/2012
Sample Matrix:	Water	**Date Analyzed:**	04/03/2012
		Time Analyzed:	13:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS53
Lab Code:	JWG1200333-4	**File ID:**	J:\MS53\DATA\MS53-120403\0403-07.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200333

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/12	12:25
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/22/2012
Sample Matrix:	Soil	**Date Analyzed:**	03/22/2012
		Time Analyzed:	11:28

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS52
Lab Code:	JWG1200305-2	**File ID:**	J:\MS52\DATA\MS52-120322\0322-05.D
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200305

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/12	10:14
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/30/2012
Sample Matrix:	Water	**Date Analyzed:**	03/30/2012
		Time Analyzed:	11:42

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	MS53
Lab Code:	JWG1200321-1	**File ID:**	J:\MS53\DATA\MS53-120330\0330-03.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200321

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/12	13:10
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 09:51

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/12	11:20
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 12:25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-04.D

Level: Low
Extraction Lot: JWG1200333

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/12	13:53
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012
Time Analyzed: 10:14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Instrument ID: MS52
File ID: J:\MS52\DATA\MS52-120322\0322-03.D

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200305

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/12	11:28
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Raw Data

p:\Stealth\Crystal.rpt\DividerD.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.54**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**0.57**	I	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.62**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**6.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**13**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**0.31**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.30**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.71**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**8.2**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**83**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**5.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**0.70**	I	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.46**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.21**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**59**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**6.0**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**200**		10	2.2	10	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.49**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**33**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**0.92**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**79**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.49**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**0.96**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.50**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.43**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**92**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	113	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	97	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**2.0**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.21**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**76**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**27**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.36**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**3.4**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**12**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.2**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**140**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**150**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	101	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**4.1**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.48**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.3**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**1000**		20	7.2	20	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.3**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.25**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**18**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**530**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	97	86-112	03/30/12	Acceptable
Toluene-d8	102	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.92**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**9.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.42**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**99**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**3.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**1.4**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**0.52**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**33**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	96	86-112	03/30/12	Acceptable
Toluene-d8	103	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.98**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.26**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.55**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.23**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.44**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.59**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.31**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**4.2**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**3.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.55**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**4.1**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**180**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	110	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.2**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.44**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**8.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Collected:**	03/20/2012
Sample Matrix:	Water	**Date Received:**	03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name:	CRHE-MW0037-030.0-03202012	**Units:**	ug/L
Lab Code:	J1201360-016	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.20**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**19**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.32**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.52**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**90**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**4.0**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**3.6**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	99	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**1.4**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**1.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**420**		10	3.6	10	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**13**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**140**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**100**		10	2.2	10	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	112	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	100	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**3.5**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**9.1**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**6.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**0.41**	I	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**3600**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**0.22**	I	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.36**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**34**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1000**		100	16	100	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**2000**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	108	86-113	04/02/12	Acceptable
Dibromofluoromethane	95	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**0.51**	I	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**1.5**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.22**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	99	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**0.96**	I	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**2.7**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**790**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.22**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**14**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**1700**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	11		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**0.74**	I	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**13**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**2.2**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**15**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**9700**		200	72	200	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**0.41**	I	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**75**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.60**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**7600**		200	44	200	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	92	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/02/12	Acceptable
Dibromofluoromethane	97	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	100	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	95	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	105	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	103	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**19.8**		1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	**19.6**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	**20.3**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	**19.6**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**20.5**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**23.0**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	**20.7**		10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	**19.2**		10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	**16.5**		5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	**18.7**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	**20.5**		1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	**19.9**		1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	**21.6**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	**21.5**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	**20.9**		1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	**102**		10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	**93.2**		25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	**96.1**		25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**88.3**		50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**21.4**		1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	**19.6**		5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**20.2**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	**19.2**		2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	**19.1**		5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	**119**		10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	**18.3**		1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**20.7**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	**21.5**		5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**19.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	**24.8**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**21.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	**20.9**		1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**20.3**		10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**19.4**		1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**22.1**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**21.8**		1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	**24.0**		1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
m,p-Xylenes	**44.3**		2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	**19.4**		10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	**20.0**		2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**20.5**		5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	**21.3**		1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	**20.9**		1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	**20.2**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**21.1**		1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**20.9**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	**19.7**		1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**20.6**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	**20.3**		20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	**21.4**		20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**21.4**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**19.4**		1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	**20.2**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	**21.1**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	**19.6**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**21.2**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**23.6**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	**19.5**		10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	**18.7**		10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	**16.7**		5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	**19.1**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	**20.3**		1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	**19.8**		1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	**21.5**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	**21.0**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	**21.0**		1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	**99.8**		10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	**94.3**		25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	**95.0**		25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	**86.2**		50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	**21.4**		1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	**19.4**		5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**20.9**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	**20.2**		2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	**19.4**		5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	**121**		10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	**19.3**		1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	**20.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	**22.3**		5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**20.5**		1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	**25.2**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**21.7**		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	**20.7**		1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	**20.8**		10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	**19.5**		1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	**22.3**		20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**21.1**		1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	**23.8**		1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	**44.3**		2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	**18.4**		10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	**20.8**		2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**21.2**		5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	**21.4**		1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	**21.2**		1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	**20.2**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**21.1**		1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**21.2**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	**19.9**		1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**20.8**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	**21.2**		20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	**22.4**		20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**22.0**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	104	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	97	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**18.9**		1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	**19.5**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	**19.6**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	**19.4**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**20.4**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**22.4**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	**19.2**		10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	**17.9**		10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	**16.1**		5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	**18.2**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	**19.6**		1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	**20.0**		1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	**21.1**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	**20.9**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	**20.4**		1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	**98.5**		10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	**91.0**		25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	**92.1**		25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	**90.0**		50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	**20.5**		1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	**18.7**		5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	**20.6**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	**18.3**		2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	**17.8**		5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	**114**		10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	**17.7**		1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	**19.7**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	**19.9**		5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**19.7**		1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	**21.6**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**20.9**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	**19.6**		1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	**19.8**		10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	**18.4**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**19.8**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**20.8**		1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	**24.1**		1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
m,p-Xylenes	**41.0**		2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	**19.1**		10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	**19.8**		2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	**20.0**		5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	**20.2**		1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	**19.9**		1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	**18.9**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**20.0**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**20.1**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	**19.3**		1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**20.3**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	**18.9**	I	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	**20.0**		20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**19.6**		1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	109	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	99	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.24	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.6	0.33	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.6	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.44	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	28	1.0	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.62	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.65	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	140	3.9	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.6	0.077	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	12	0.46	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.6	0.26	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.6	0.30	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.28	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.25	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.6	0.070	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**2.0**	I	56	0.17	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.6	0.082	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.6	0.56	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.6	0.20	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	23	0.29	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	23	0.28	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.6	0.27	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	102	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	**22**	I	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	103	64-135	03/22/12	Acceptable
Dibromofluoromethane	91	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.8	0.25	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.8	0.34	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.8	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.21	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.45	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	29	1.1	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.64	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.67	1	03/22/12	03/22/12	JWG1200305	
Acetone	**17**	I	150	4.1	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.8	0.080	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**2.1**	I	12	0.48	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.8	0.27	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.8	0.32	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.29	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.26	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.8	0.073	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	58	0.18	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.8	0.085	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.8	0.58	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.8	0.21	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	24	0.30	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	24	0.29	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.8	0.28	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	116	64-135	03/22/12	Acceptable
Dibromofluoromethane	99	74-125	03/22/12	Acceptable
Toluene-d8	108	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	95	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	102	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**18.1**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	**17.4**		5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	**17.4**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	**18.4**		5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	**18.3**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	**16.0**		5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	**18.9**		10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	**18.7**		10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	**17.4**		10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	**18.2**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	**18.6**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	**17.7**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	**18.3**		5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	**18.5**		5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	**18.7**		5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	**87.5**		25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	**88.0**		10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	**90.1**		10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	**83.4**	I	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	**18.2**		5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	**19.0**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	**17.1**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	**16.8**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	**18.5**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**110**		10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	**16.0**		5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	**19.0**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	**17.5**		5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	**17.1**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	**16.6**		5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	**18.4**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	**18.5**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	**19.3**		10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	**16.7**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	**17.1**	I	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**18.9**		5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	**20.9**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	**38.0**		10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	**16.6**		10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	**18.1**		5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**16.6**	I	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	**18.3**		5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	**19.1**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	**18.9**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	**18.7**		5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	**17.6**		5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	**17.6**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	**18.4**		5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	**17.4**	I	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	**17.7**	I	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	**18.9**		5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	97	64-135	03/22/12	Acceptable
Dibromofluoromethane	98	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Standards Data

n:\Stealth\Crystal.rpt\DividerE.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:17

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-01.D
Instrument ID: MS52
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200306

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.1	3056	PASS
75	95	30	60	44.7	9053	PASS
95	95	100	100	100.0	20275	PASS
96	95	5	9	6.8	1378	PASS
173	174	0	2	0.4	78	PASS
174	95	50	120	93.5	18957	PASS
175	174	5	9	7.2	1370	PASS
176	174	95	101	98.9	18742	PASS
177	176	5	9	6.5	1226	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200306-2	J:\MS52\DATA\MS52-120322\0322-02.D	03/22/2012	09:45	
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/2012	10:14	
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/2012	11:28	
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/2012	18:20	
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/2012	18:48	
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/2012	19:17	
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/2012	19:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 10:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200322

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.2	25176	PASS
75	95	30	60	33.7	55912	PASS
95	95	100	100	100.0	166080	PASS
96	95	5	9	6.4	10595	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.7	150592	PASS
175	174	5	9	7.5	11247	PASS
176	174	95	101	95.4	143616	PASS
177	176	5	9	6.0	8649	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200322-2	J:\MS53\DATA\MS53-120330\0330-02.D	03/30/2012	11:12	
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/2012	11:42	
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/2012	13:10	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/2012	13:40	
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/2012	14:10	
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/2012	14:40	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/2012	15:09	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/2012	15:39	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/2012	16:09	
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/2012	16:39	
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/2012	17:09	
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/2012	17:39	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/2012	18:09	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/2012	18:39	
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/2012	19:09	
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/2012	19:39	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/2012	20:09	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/2012	20:39	
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/2012	21:08	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/2012	21:38	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 08:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200326

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	37064	PASS
75	95	30	60	35.7	80421	PASS
95	95	100	100	100.0	225429	PASS
96	95	5	9	6.5	14647	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.9	180139	PASS
175	174	5	9	7.7	13885	PASS
176	174	95	101	96.2	173248	PASS
177	176	5	9	6.3	10928	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200326-2	J:\MS53\DATA\MS53-120402\0402-02.D	04/02/2012	09:21	
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/2012	09:51	
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/2012	11:20	
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/2012	11:50	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/2012	12:20	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/2012	12:49	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/2012	13:20	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/2012	13:50	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/2012	14:20	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/2012	14:50	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/2012	15:19	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/2012	15:49	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/2012	16:19	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/2012	16:49	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/2012	17:19	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/2012	17:49	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/2012	18:19	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/2012	18:49	
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/2012	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 10:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200334

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.8	34616	PASS
75	95	30	60	36.5	75304	PASS
95	95	100	100	100.0	206165	PASS
96	95	5	9	6.5	13426	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	74.0	152600	PASS
175	174	5	9	8.1	12319	PASS
176	174	95	101	95.9	146363	PASS
177	176	5	9	6.7	9745	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200334-2	J:\MS53\DATA\MS53-120403\0403-03.D	04/03/2012	11:53	
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/2012	12:25	
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/2012	13:53	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/2012	14:23	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/2012	14:52	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/2012	15:22	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/2012	15:51	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/2012	16:21	
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/2012	16:50	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/2012	17:20	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/2012	18:18	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS52\DATA\MS52-120227\0227-04.D	F	J:\MS52\DATA\MS52-120227\0227-09.D
B	J:\MS52\DATA\MS52-120227\0227-05.D	G	J:\MS52\DATA\MS52-120227\0227-10.D
C	J:\MS52\DATA\MS52-120227\0227-06.D	H	J:\MS52\DATA\MS52-120227\0227-11.D
D	J:\MS52\DATA\MS52-120227\0227-07.D	I	J:\MS52\DATA\MS52-120227\0227-12.D
E	J:\MS52\DATA\MS52-120227\0227-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	1.06	B	2.0	1.07	C	5.0	1.09	D	10	1.16	E	20	1.24
	F	50	1.29	G	100	1.41	H	150	1.24	I	200	1.35			
1,1,1-Trichloroethane (TCA)	A	1.0	0.672	B	2.0	0.693	C	5.0	0.706	D	10	0.709	E	20	0.843
	F	50	0.863	G	100	0.927	H	150	0.774	I	200	0.890			
1,1,2,2-Tetrachloroethane	A	1.0	0.996	B	2.0	0.870	C	5.0	0.993	D	10	0.943	E	20	0.984
	F	50	1.03	G	100	1.16	H	150	1.08	I	200	1.03			
1,1,2-Trichloroethane	A	1.0	0.650	B	2.0	0.651	C	5.0	0.608	D	10	0.664	E	20	0.665
	F	50	0.704	G	100	0.758	H	150	0.685	I	200	0.694			
1,1-Dichloroethane	A	1.0	0.636	B	2.0	0.665	C	5.0	0.745	D	10	0.712	E	20	0.795
	F	50	0.787	G	100	0.830	H	150	0.727	I	200	0.812			
1,1-Dichloroethene	A	1.0	0.518	B	2.0	0.546	C	5.0	0.598	D	10	0.564	E	20	0.676
	F	50	0.699	G	100	0.729	H	150	0.616	I	200	0.713			
1,2,3-Trichlorobenzene							C	5.0	1.51	D	10	1.53	E	20	1.65
	F	50	1.68	G	100	1.88	H	150	1.79	I	200	1.79			
1,2,4-Trichlorobenzene							C	5.0	1.78	D	10	1.65	E	20	1.85
	F	50	1.95	G	100	2.14	H	150	2.02	I	200	2.06			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.201	D	10	0.207	E	20	0.215
	F	50	0.224	G	100	0.265	H	150	0.268	I	200	0.246			
1,2-Dibromoethane (EDB)	A	1.0	0.828	B	2.0	0.746	C	5.0	0.831	D	10	0.838	E	20	0.879
	F	50	0.910	G	100	1.02	H	150	0.922	I	200	0.926			
1,2-Dichlorobenzene	A	1.0	2.20	B	2.0	2.23	C	5.0	2.29	D	10	2.27	E	20	2.42
	F	50	2.48	G	100	2.75	H	150	2.54	I	200	2.57			
1,2-Dichloroethane (EDC)	A	1.0	0.451	B	2.0	0.543	C	5.0	0.534	D	10	0.526	E	20	0.550
	F	50	0.559	G	100	0.594	H	150	0.529	I	200	0.541			
1,2-Dichloroethane-d4	A	50	0.259	B	50	0.263	C	50	0.260	D	50	0.257	E	50	0.250
	F	50	0.246	G	50	0.250	H	50	0.238	I	50	0.232			
1,2-Dichloropropane	A	1.0	0.317	B	2.0	0.359	C	5.0	0.385	D	10	0.389	E	20	0.419
	F	50	0.414	G	100	0.449	H	150	0.398	I	200	0.432			
1,3-Dichlorobenzene	A	1.0	2.49	B	2.0	2.45	C	5.0	2.50	D	10	2.50	E	20	2.68
	F	50	2.78	G	100	2.98	H	150	2.75	I	200	2.89			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	2.55	B	2.0	2.49	C	5.0	2.54	D	10	2.51	E	20	2.68
	F	50	2.71	G	100	2.93	H	150	2.66	I	200	2.76			
2-Butanone (MEK)	A	5.0	0.110	B	10	0.121	C	25	0.134	D	50	0.129	E	100	0.122
	F	250	0.126	G	500	0.137	H	750	0.133	I	1000	0.120			
2-Hexanone	A	5.0	0.483	B	10	0.458	C	25	0.508	D	50	0.502	E	100	0.493
	F	250	0.519	G	500	0.587	H	750	0.567	I	1000	0.513			
4-Bromofluorobenzene	A	50	0.871	B	50	0.864	C	50	0.864	D	50	0.885	E	50	0.872
	F	50	0.901	G	50	0.940	H	50	1.01	I	50	1.05			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.687	B	10	0.676	C	25	0.718	D	50	0.734	E	100	0.712
	F	250	0.727	G	500	0.822	H	750	0.779	I	1000	0.708			
Acetone	A	5.0	0.109	B	10	0.114	C	25	0.0910	D	50	0.0862	E	100	0.0760
	F	250	0.0764	G	500	0.0848	H	750	0.0801	I	1000	0.0729			
Benzene	A	1.0	1.64	B	2.0	1.61	C	5.0	1.72	D	10	1.63	E	20	1.81
	F	50	1.84	G	100	1.93	H	150	1.66	I	200	1.84			
Bromochloromethane	A	1.0	0.229	B	2.0	0.251	C	5.0	0.275	D	10	0.266	E	20	0.289
	F	50	0.281	G	100	0.280	H	150	0.254	I	200	0.262			
Bromodichloromethane	A	1.0	0.550	B	2.0	0.529	C	5.0	0.562	D	10	0.550	E	20	0.610
	F	50	0.623	G	100	0.668	H	150	0.599	I	200	0.632			
Bromoform	A	1.0	0.578	B	2.0	0.610	C	5.0	0.604	D	10	0.656	E	20	0.670
	F	50	0.738	G	100	0.832	H	150	0.780	I	200	0.769			
Bromomethane	A	1.0	0.210	B	2.0	0.245	C	5.0	0.239	D	10	0.240	E	20	0.289
	F	50	0.312	G	100	0.316	H	150	0.267	I	200	0.285			
Carbon Disulfide	A	5.0	0.950	B	10	0.925	C	25	0.995	D	50	0.961	E	100	1.11
	F	250	1.12	G	500	1.16	H	750	0.967	I	1000	1.12			
Carbon Tetrachloride	A	1.0	0.499	B	2.0	0.583	C	5.0	0.602	D	10	0.603	E	20	0.705
	F	50	0.755	G	100	0.804	H	150	0.676	I	200	0.775			
Chlorobenzene	A	1.0	2.91	B	2.0	3.04	C	5.0	3.14	D	10	3.18	E	20	3.41
	F	50	3.49	G	100	3.79	H	150	3.26	I	200	3.61			
Chloroethane	A	1.0	0.284	B	2.0	0.292	C	5.0	0.287	D	10	0.265	E	20	0.321
	F	50	0.322	G	100	0.335	H	150	0.285	I	200	0.325			
Chloroform	A	1.0	0.865	B	2.0	0.772	C	5.0	0.799	D	10	0.779	E	20	0.844
	F	50	0.850	G	100	0.904	H	150	0.787	I	200	0.854			
Chloromethane	A	1.0	0.480	B	2.0	0.498	C	5.0	0.522	D	10	0.490	E	20	0.602
	F	50	0.595	G	100	0.630	H	150	0.530	I	200	0.616			
cis-1,2-Dichloroethene	A	1.0	0.521	B	2.0	0.547	C	5.0	0.560	D	10	0.524	E	20	0.600
	F	50	0.608	G	100	0.638	H	150	0.550	I	200	0.612			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	1.59	B	2.0	1.51	C	5.0	1.57	D	10	1.55	E	20	1.74
	F	50	1.82	G	100	1.96	H	150	1.77	I	200	1.89			
Cyclohexane	A	1.0	0.520	B	2.0	0.584	C	5.0	0.628	D	10	0.623	E	20	0.741
	F	50	0.762	G	100	0.817	H	150	0.690	I	200	0.796			
Dibromochloromethane	A	1.0	0.936	B	2.0	0.974	C	5.0	1.04	D	10	1.01	E	20	1.10
	F	50	1.15	G	100	1.28	H	150	1.15	I	200	1.20			
Dibromofluoromethane	A	50	0.243	B	50	0.248	C	50	0.245	D	50	0.244	E	50	0.243
	F	50	0.240	G	50	0.232	H	50	0.237	I	50	0.232			
Dichlorodifluoromethane	A	1.0	0.485	B	2.0	0.502	C	5.0	0.513	D	10	0.488	E	20	0.600
	F	50	0.618	G	100	0.650	H	150	0.531	I	200	0.602			
Ethylbenzene	A	1.0	4.98	B	2.0	4.98	C	5.0	5.31	D	10	5.29	E	20	6.02
	F	50	6.24	G	100	6.74	H	150	5.77	I	200	6.43			
Isopropylbenzene	A	1.0	3.99	B	2.0	4.07	C	5.0	4.52	D	10	4.56	E	20	5.01
	F	50	5.26	G	100	5.79	H	150	5.23	I	200	5.74			
m,p-Xylenes	A	2.0	3.98	B	4.0	3.87	C	10	4.20	D	20	4.25	E	40	4.83
	F	100	4.88	G	200	5.27	H	300	4.48	I	400	4.97			
Methyl Acetate	A	1.0	0.534	B	2.0	0.515	C	5.0	0.528	D	10	0.519	E	20	0.510
	F	50	0.481	G	100	0.537	H	150	0.506	I	200	0.458			
Methyl tert-Butyl Ether	A	1.0	1.04	B	2.0	1.05	C	5.0	1.05	D	10	1.01	E	20	1.05
	F	50	1.10	G	100	1.17	H	150	1.11	I	200	1.10			
Methylene Chloride	A	1.0	0.840	B	2.0	0.616	C	5.0	0.514	D	10	0.453	E	20	0.512
	F	50	0.493	G	100	0.481	H	150	0.436	I	200	0.449			
o-Xylene	A	1.0	4.45	B	2.0	4.11	C	5.0	4.44	D	10	4.38	E	20	4.91
	F	50	5.04	G	100	5.37	H	150	4.67	I	200	5.10			
Styrene	A	1.0	2.66	B	2.0	3.13	C	5.0	3.22	D	10	3.25	E	20	3.70
	F	50	3.83	G	100	4.21	H	150	3.67	I	200	3.99			
Tetrachloroethene (PCE)	A	1.0	0.932	B	2.0	0.963	C	5.0	1.08	D	10	1.05	E	20	1.21
	F	50	1.23	G	100	1.32	H	150	1.11	I	200	1.27			
Toluene	A	1.0	4.59	B	2.0	4.55	C	5.0	4.69	D	10	4.68	E	20	5.27
	F	50	5.33	G	100	5.73	H	150	4.91	I	200	5.46			
Toluene-d8	A	50	2.51	B	50	2.46	C	50	2.44	D	50	2.46	E	50	2.50
	F	50	2.47	G	50	2.52	H	50	2.45	I	50	2.52			
trans-1,2-Dichloroethene	A	1.0	0.580	B	2.0	0.560	C	5.0	0.577	D	10	0.557	E	20	0.650
	F	50	0.639	G	100	0.679	H	150	0.577	I	200	0.661			
trans-1,3-Dichloropropene	A	1.0	1.40	B	2.0	1.47	C	5.0	1.44	D	10	1.45	E	20	1.54
	F	50	1.64	G	100	1.85	H	150	1.67	I	200	1.74			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.417	B	2.0	0.448	C	5.0	0.503	D	10	0.491	E	20	0.550
	F	50	0.557	G	100	0.591	H	150	0.512	I	200	0.578			
Trichlorofluoromethane	A	1.0	0.748	B	2.0	0.708	C	5.0	0.742	D	10	0.720	E	20	0.879
	F	50	0.881	G	100	0.938	H	150	0.779	I	200	0.893			
Trichlorotrifluoroethane	A	1.0	0.330	B	2.0	0.332	C	5.0	0.376	D	10	0.372	E	20	0.452
	F	50	0.462	G	100	0.471	H	150	0.393	I	200	0.453			
Vinyl Chloride	A	1.0	0.369	B	2.0	0.439	C	5.0	0.448	D	10	0.423	E	20	0.496
	F	50	0.465	G	100	0.461	H	150	0.365	I	200	0.444			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	10.3		≤ 15	1.21		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.3		≤ 15	0.786		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	8.1		≤ 15	1.01		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	6.2		≤ 15	0.675		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.0		≤ 15	0.745		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	12.4		≤ 15	0.629		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	8.1		≤ 15	1.69		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	9.0		≤ 15	1.92		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	11.8		≤ 15	0.232		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	8.9		≤ 15	0.878		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	2.42		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	7.1		≤ 15	0.536		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	4.2		≤ 15	0.251		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	10.1		≤ 15	0.396		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	2.67		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	5.3		≤ 15	2.65		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	6.7		≤ 15	0.126		0.01
2-Hexanone	MS	AverageRF	% RSD	7.8		≤ 15	0.514		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.6		≤ 15	0.918		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.3		≤ 15	0.729		0.01
Acetone	MS	Linear	R2	0.994		≥ 0.99	0.0878		0.01
Benzene	MS	AverageRF	% RSD	6.7		≤ 15	1.74		0.01
Bromochloromethane	MS	AverageRF	% RSD	7.0		≤ 15	0.265		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.8		≤ 15	0.592		0.01
† Bromoform	MS	AverageRF	% RSD	12.9		≤ 15	0.693		0.1
Bromomethane	MS	AverageRF	% RSD	13.5		≤ 15	0.267		0.01
Carbon Disulfide	MS	AverageRF	% RSD	8.9		≤ 15	1.03		0.01
Carbon Tetrachloride	MS	Linear	R2	0.993		≥ 0.99	0.667		0.01
† Chlorobenzene	MS	AverageRF	% RSD	8.6		≤ 15	3.32		0.3
Chloroethane	MS	AverageRF	% RSD	8.1		≤ 15	0.302		0.01
‡ Chloroform	MS	AverageRF	% RSD	5.5		≤ 15	0.828		0.01
† Chloromethane	MS	AverageRF	% RSD	10.7		≤ 15	0.551		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	7.3		≤ 15	0.573		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	9.5		≤ 15	1.71		0.01
Cyclohexane	MS	AverageRF	% RSD	14.9		≤ 15	0.684		0.01
Dibromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	1.09		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.3		≤ 15	0.241		
Dichlorodifluoromethane	MS	AverageRF	% RSD	11.4		≤ 15	0.554		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	11.2		≤ 15	5.75		0.01
Isopropylbenzene	MS	AverageRF	% RSD	13.5		≤ 15	4.91		0.01
m,p-Xylenes	MS	AverageRF	% RSD	10.7		≤ 15	4.53		0.01
Methyl Acetate	MS	AverageRF	% RSD	5.1		≤ 15	0.510		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	4.6		≤ 15	1.08		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	Linear	R2	0.998		≥ 0.99	0.533		0.01
o-Xylene	MS	AverageRF	% RSD	8.7		≤ 15	4.72		0.01
Styrene	MS	AverageRF	% RSD	13.9		≤ 15	3.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	12.1		≤ 15	1.13		0.01
‡ Toluene	MS	AverageRF	% RSD	8.6		≤ 15	5.02		0.01
Toluene-d8	SURR	AverageRF	% RSD	1.2		≤ 15	2.48		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	7.8		≤ 15	0.609		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	9.7		≤ 15	1.58		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.516		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	10.8		≤ 15	0.810		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.9		≤ 15	0.405		0.01
‡ Vinyl Chloride	MS	AverageRF	% RSD	10.0		≤ 15	0.434		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

File ID: J:\MS52\DATA\MS52-120227\0227-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	1.21	1.25	3	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.786	0.827	5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	1.01	1.01	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.675	0.713	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.745	0.819	10	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.629	0.681	8	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	1.69	1.66	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	1.92	1.85	-4	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.232	0.212	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.878	0.906	3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	2.42	2.47	2	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.536	0.540	1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.396	0.425	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	20	2.67	2.72	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	2.65	2.73	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.126	0.122	-3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.514	0.515	0	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.729	0.730	0	NA	± 30 %	AverageRF
Acetone	100	93	0.0878	0.0775	NA	-7	± 30 %	Linear
Benzene	20	21	1.74	1.85	6	NA	± 30 %	AverageRF
Bromochloromethane	20	22	0.265	0.292	10	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.592	0.612	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.693	0.665	-4	NA	± 30 %	AverageRF
Bromomethane	20	19	0.267	0.258	-3	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	1.03	1.12	8	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.667	0.697	NA	-3	± 30 %	Linear
Chlorobenzene	20	21	3.32	3.51	6	NA	± 30 %	AverageRF
Chloroethane	20	21	0.302	0.321	7	NA	± 30 %	AverageRF
Chloroform	20	20	0.828	0.846	2	NA	± 30 %	AverageRF
Chloromethane	20	21	0.551	0.569	3	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.573	0.605	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	1.71	1.79	5	NA	± 30 %	AverageRF
Cyclohexane	20	22	0.684	0.743	9	NA	± 30 %	AverageRF
Dibromochloromethane	20	20	1.09	1.10	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.554	0.589	6	NA	± 30 %	AverageRF
Ethylbenzene	20	21	5.75	6.10	6	NA	± 30 %	AverageRF
Isopropylbenzene	20	21	4.91	5.23	7	NA	± 30 %	AverageRF
m,p-Xylenes	40	43	4.53	4.90	8	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.510	0.512	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	1.08	1.10	2	NA	± 30 %	AverageRF
Methylene Chloride	20	26	0.533	0.618	NA	29	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	21	4.72	4.99	6	NA	± 30 %	AverageRF
Styrene	20	22	3.52	3.83	9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	21	1.13	1.21	7	NA	± 30 %	AverageRF
Toluene	20	21	5.02	5.34	6	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.609	0.653	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	1.58	1.57	0	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.516	0.579	12	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.810	0.857	6	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.405	0.435	7	NA	± 30 %	AverageRF
Vinyl Chloride	20	23	0.434	0.493	13	NA	± 30 %	AverageRF

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† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS53\DATA\MS53-120307\0307-03.D	F	J:\MS53\DATA\MS53-120307\0307-09.D
B	J:\MS53\DATA\MS53-120307\0307-04.D	G	J:\MS53\DATA\MS53-120307\0307-10.D
C	J:\MS53\DATA\MS53-120307\0307-05.D	H	J:\MS53\DATA\MS53-120307\0307-11.D
D	J:\MS53\DATA\MS53-120307\0307-06.D	I	J:\MS53\DATA\MS53-120307\0307-15.D
E	J:\MS53\DATA\MS53-120307\0307-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	0.493	B	2.0	0.424	C	5.0	0.487	D	10	0.500	E	50	0.524
	F	100	0.512	G	150	0.473	H	200	0.463	I	20	0.523			
1,1,1-Trichloroethane (TCA)	A	1.0	0.186	B	2.0	0.173	C	5.0	0.216	D	10	0.207	E	50	0.253
	F	100	0.246	G	150	0.241	H	200	0.241	I	20	0.227			
1,1,2,2-Tetrachloroethane	A	1.0	0.721	B	2.0	0.736	C	5.0	0.779	D	10	0.812	E	50	0.777
	F	100	0.734	G	150	0.659	H	200	0.569	I	20	0.763			
1,1,2-Trichloroethane	A	1.0	0.374	B	2.0	0.341	C	5.0	0.369	D	10	0.374	E	50	0.363
	F	100	0.380	G	150	0.348	H	200	0.339	I	20	0.381			
1,1-Dichloroethane	A	1.0	0.341	B	2.0	0.323	C	5.0	0.390	D	10	0.382	E	50	0.427
	F	100	0.421	G	150	0.422	H	200	0.411	I	20	0.406			
1,1-Dichloroethene	A	1.0	0.218	B	2.0	0.195	C	5.0	0.247	D	10	0.227	E	50	0.266
	F	100	0.240	G	150	0.219	H	200	0.206	I	20	0.257			
1,2,3-Trichlorobenzene										D	10	0.342	E	50	0.343
	F	100	0.373	G	150	0.354	H	200	0.354	I	20	0.337			
1,2,4-Trichlorobenzene										D	10	0.485	E	50	0.533
	F	100	0.564	G	150	0.552	H	200	0.552	I	20	0.505			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.0716	D	10	0.0723	E	50	0.0750
	F	100	0.0823	G	150	0.0817	H	200	0.0823	I	20	0.0665			
1,2-Dibromoethane (EDB)	A	1.0	0.375	B	2.0	0.367	C	5.0	0.413	D	10	0.423	E	50	0.415
	F	100	0.425	G	150	0.406	H	200	0.382	I	20	0.421			
1,2-Dichlorobenzene	A	1.0	1.10	B	2.0	0.997	C	5.0	1.15	D	10	1.09	E	50	1.12
	F	100	1.12	G	150	1.03	H	200	1.01	I	20	1.16			
1,2-Dichloroethane (EDC)	A	1.0	0.136	B	2.0	0.117	C	5.0	0.138	D	10	0.137	E	50	0.147
	F	100	0.145	G	150	0.145	H	200	0.143	I	20	0.141			
1,2-Dichloroethane-d4	A	50	0.147	B	50	0.149	C	50	0.145	D	50	0.148	E	50	0.146
	F	50	0.144	G	50	0.146	H	50	0.141	I	50	0.141			
1,2-Dichloropropane	A	1.0	0.207	B	2.0	0.201	C	5.0	0.223	D	10	0.224	E	50	0.245
	F	100	0.240	G	150	0.233	H	200	0.230	I	20	0.234			
1,3-Dichlorobenzene	A	1.0	1.27	B	2.0	1.14	C	5.0	1.33	D	10	1.26	E	50	1.26
	F	100	1.16	G	150	1.06	H	200	0.987	I	20	1.31			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	1.21	B	2.0	1.11	C	5.0	1.28	D	10	1.25	E	50	1.31
	F	100	1.24	G	150	1.18	H	200	1.09	I	20	1.36			
2-Butanone (MEK)	A	5.0	0.00960	B	10	0.0116	C	25	0.0117	D	50	0.0121	E	250	0.0134
	F	500	0.0126	G	750	0.0128	H	1000	0.0131	I	100	0.0122			
2-Hexanone				B	10	0.293	C	25	0.288	D	50	0.283	E	250	0.263
	F	500	0.273	G	750	0.250	H	1000	0.238	I	100	0.278			
4-Bromofluorobenzene	A	50	1.02	B	50	0.970	C	50	0.993	D	50	0.952	E	50	0.907
	F	50	0.857	G	50	0.815	H	50	0.793	I	50	0.954			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.422	B	10	0.421	C	25	0.431	D	50	0.435	E	250	0.405
	F	500	0.401	G	750	0.380	H	1000	0.364	I	100	0.428			
Acetone	A	5.0	0.0341	B	10	0.0312	C	25	0.0313	D	50	0.0309	E	250	0.0284
	F	500	0.0286	G	750	0.0280	H	1000	0.0265	I	100	0.0274			
Benzene	A	1.0	0.820	B	2.0	0.794	C	5.0	0.904	D	10	0.885	E	50	0.990
	F	100	0.952	G	150	0.913	H	200	0.875	I	20	0.955			
Bromochloromethane	A	1.0	0.114	B	2.0	0.111	C	5.0	0.133	D	10	0.136	E	50	0.146
	F	100	0.145	G	150	0.148	H	200	0.145	I	20	0.142			
Bromodichloromethane	A	1.0	0.207	B	2.0	0.202	C	5.0	0.227	D	10	0.231	E	50	0.252
	F	100	0.246	G	150	0.244	H	200	0.233	I	20	0.241			
Bromoform	A	1.0	0.172	B	2.0	0.166	C	5.0	0.209	D	10	0.224	E	50	0.249
	F	100	0.246	G	150	0.236	H	200	0.224	I	20	0.232			
Bromomethane	A	1.0	0.172	B	2.0	0.160	C	5.0	0.182	D	10	0.184	E	50	0.217
	F	100	0.173	G	150	0.157	H	200	0.147	I	20	0.190			
Carbon Disulfide	A	5.0	0.669	B	10	0.622	C	25	0.755	D	50	0.708	E	250	0.796
	F	500	0.685	G	750	0.613	H	1000	0.560	I	100	0.787			
Carbon Tetrachloride	A	1.0	0.132	B	2.0	0.133	C	5.0	0.168	D	10	0.158	E	50	0.198
	F	100	0.195	G	150	0.190	H	200	0.193	I	20	0.178			
Chlorobenzene	A	1.0	1.44	B	2.0	1.39	C	5.0	1.57	D	10	1.54	E	50	1.56
	F	100	1.52	G	150	1.37	H	200	1.29	I	20	1.64			
Chloroethane	A	1.0	0.154	B	2.0	0.143	C	5.0	0.161	D	10	0.167	E	50	0.188
	F	100	0.162	G	150	0.150	H	200	0.143	I	20	0.178			
Chloroform	A	1.0	0.323	B	2.0	0.293	C	5.0	0.343	D	10	0.328	E	50	0.370
	F	100	0.368	G	150	0.370	H	200	0.357	I	20	0.350			
Chloromethane	A	1.0	0.306	B	2.0	0.286	C	5.0	0.324	D	10	0.314	E	50	0.389
	F	100	0.331	G	150	0.310	H	200	0.296	I	20	0.350			
cis-1,2-Dichloroethene	A	1.0	0.246	B	2.0	0.242	C	5.0	0.291	D	10	0.285	E	50	0.315
	F	100	0.310	G	150	0.308	H	200	0.301	I	20	0.307			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	0.867	B	2.0	0.838	C	5.0	0.964	D	10	0.976	E	50	0.970
	F	100	1.01	G	150	0.946	H	200	0.861	I	20	0.984			
Cyclohexane	A	1.0	0.302	B	2.0	0.267	C	5.0	0.366	D	10	0.311	E	50	0.419
	F	100	0.412	G	150	0.404	H	200	0.413	I	20	0.389			
Dibromochloromethane	A	1.0	0.442	B	2.0	0.394	C	5.0	0.445	D	10	0.461	E	50	0.462
	F	100	0.473	G	150	0.437	H	200	0.412	I	20	0.476			
Dibromofluoromethane	A	50	0.255	B	50	0.258	C	50	0.256	D	50	0.256	E	50	0.258
	F	50	0.260	G	50	0.261	H	50	0.255	I	50	0.256			
Dichlorodifluoromethane	A	1.0	0.110	B	2.0	0.138	C	5.0	0.165	D	10	0.155	E	50	0.201
	F	100	0.180	G	150	0.172	H	200	0.171	I	20	0.181			
Ethylbenzene	A	1.0	2.47	B	2.0	2.16	C	5.0	2.70	D	10	2.58	E	50	2.63
	F	100	2.56	G	150	2.23	H	200	2.03	I	20	2.78			
Isopropylbenzene	A	1.0	2.13	B	2.0	1.81	C	5.0	2.30	D	10	2.11	E	50	2.35
	F	100	2.21	G	150	2.04	H	200	1.94	I	20	2.39			
m,p-Xylenes	A	2.0	1.84	B	4.0	1.65	C	10	1.94	D	20	1.91	E	100	1.86
	F	200	1.67	G	300	1.42	H	400	1.26	I	40	2.04			
Methyl Acetate	A	1.0	0.314	B	2.0	0.285	C	5.0	0.285	D	10	0.294	E	50	0.296
	F	100	0.291	G	150	0.285	H	200	0.270	I	20	0.287			
Methyl tert-Butyl Ether	A	1.0	0.310	B	2.0	0.317	C	5.0	0.363	D	10	0.361	E	50	0.381
	F	100	0.376	G	150	0.374	H	200	0.377	I	20	0.359			
Methylene Chloride	A	1.0	0.228	B	2.0	0.210	C	5.0	0.255	D	10	0.243	E	50	0.278
	F	100	0.266	G	150	0.259	H	200	0.256	I	20	0.264			
o-Xylene	A	1.0	1.82	B	2.0	1.66	C	5.0	2.00	D	10	1.97	E	50	1.96
	F	100	1.85	G	150	1.63	H	200	1.43	I	20	2.02			
Styrene	A	1.0	1.51	B	2.0	1.37	C	5.0	1.63	D	10	1.63	E	50	1.61
	F	100	1.58	G	150	1.37	H	200	1.28	I	20	1.68			
Tetrachloroethene (PCE)	A	1.0	0.392	B	2.0	0.356	C	5.0	0.466	D	10	0.436	E	50	0.492
	F	100	0.500	G	150	0.461	H	200	0.441	I	20	0.511			
Toluene	A	1.0	2.37	B	2.0	2.18	C	5.0	2.58	D	10	2.43	E	50	2.54
	F	100	2.47	G	150	2.16	H	200	1.99	I	20	2.73			
Toluene-d8	A	50	2.41	B	50	2.43	C	50	2.45	D	50	2.48	E	50	2.35
	F	50	2.44	G	50	2.41	H	50	2.34	I	50	2.48			
trans-1,2-Dichloroethene	A	1.0	0.258	B	2.0	0.248	C	5.0	0.305	D	10	0.285	E	50	0.345
	F	100	0.338	G	150	0.333	H	200	0.326	I	20	0.324			
trans-1,3-Dichloropropene	A	1.0	0.620	B	2.0	0.584	C	5.0	0.677	D	10	0.694	E	50	0.674
	F	100	0.714	G	150	0.664	H	200	0.623	I	20	0.697			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.181	B	2.0	0.172	C	5.0	0.213	D	10	0.204	E	50	0.233
	F	100	0.228	G	150	0.221	H	200	0.209	I	20	0.224			
Trichlorofluoromethane				B	2.0	0.137	C	5.0	0.190	D	10	0.176	E	50	0.225
	F	100	0.216	G	150	0.209	H	200	0.206	I	20	0.205			
Trichlorotrifluoroethane	A	1.0	0.154	B	2.0	0.138	C	5.0	0.181	D	10	0.175	E	50	0.223
	F	100	0.197	G	150	0.186	H	200	0.187	I	20	0.202			
Vinyl Chloride	A	1.0	0.208	B	2.0	0.198	C	5.0	0.254	D	10	0.242	E	50	0.277
										I	20	0.272			

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Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.6		≤ 15	0.221		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	10.1		≤ 15	0.728		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	4.6		≤ 15	0.363		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.5		≤ 15	0.391		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	10.3		≤ 15	0.230		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	3.7		≤ 15	0.351		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.532		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	8.3		≤ 15	0.0760		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	5.6		≤ 15	0.403		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.5		≤ 15	1.09		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	6.6		≤ 15	0.139		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	1.8		≤ 15	0.145		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	6.4		≤ 15	0.227		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	9.8		≤ 15	1.20		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	7.2		≤ 15	1.22		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	9.2		≤ 15	0.0121		0.01
2-Hexanone	MS	AverageRF	% RSD	7.0		≤ 15	0.271		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	8.7		≤ 15	0.917		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.0		≤ 15	0.410		0.01
Acetone	MS	AverageRF	% RSD	8.2		≤ 15	0.0296		0.01
Benzene	MS	AverageRF	% RSD	7.1		≤ 15	0.899		0.01
Bromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	0.135		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.5		≤ 15	0.231		0.01
† Bromoform	MS	AverageRF	% RSD	13.8		≤ 15	0.218		0.1
Bromomethane	MS	AverageRF	% RSD	11.8		≤ 15	0.176		0.01
Carbon Disulfide	MS	AverageRF	% RSD	11.8		≤ 15	0.689		0.01
Carbon Tetrachloride	MS	Linear	R2	1.000		≥ 0.99	0.172		0.01
† Chlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	1.48		0.3
Chloroethane	MS	AverageRF	% RSD	9.6		≤ 15	0.161		0.01
‡ Chloroform	MS	AverageRF	% RSD	7.5		≤ 15	0.345		0.01
† Chloromethane	MS	AverageRF	% RSD	9.7		≤ 15	0.323		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	9.5		≤ 15	0.290		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	6.7		≤ 15	0.935		0.01
Cyclohexane	MS	Linear	R2	1.000		≥ 0.99	0.365		0.01
Dibromochloromethane	MS	AverageRF	% RSD	6.2		≤ 15	0.445		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	0.8		≤ 15	0.257		
Dichlorodifluoromethane	MS	Linear	R2	0.998		≥ 0.99	0.164		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	10.6		≤ 15	2.46		0.01
Isopropylbenzene	MS	AverageRF	% RSD	9.0		≤ 15	2.14		0.01
m,p-Xylenes	MS	AverageRF	% RSD	14.9		≤ 15	1.73		0.01
Methyl Acetate	MS	AverageRF	% RSD	4.1		≤ 15	0.290		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	7.3		≤ 15	0.358		0.01

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	AverageRF	% RSD	8.3		≤ 15	0.251		0.01
o-Xylene	MS	AverageRF	% RSD	11.2		≤ 15	1.81		0.01
Styrene	MS	AverageRF	% RSD	9.4		≤ 15	1.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	11.3		≤ 15	0.451		0.01
‡ Toluene	MS	AverageRF	% RSD	9.9		≤ 15	2.38		0.01
Toluene-d8	SURR	AverageRF	% RSD	2.1		≤ 15	2.42		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	11.5		≤ 15	0.307		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	6.5		≤ 15	0.661		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	10.0		≤ 15	0.209		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	14.3		≤ 15	0.196		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.8		≤ 15	0.183		0.01
‡ Vinyl Chloride	MS	Linear	R2	1.000		≥ 0.99	0.242		0.01

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

File ID: J:\MS53\DATA\MS53-120307\0307-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	0.489	0.523	7	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.221	0.234	6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	22	0.728	0.785	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.363	0.386	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.391	0.419	7	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.230	0.261	13	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	0.351	0.349	0	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	20	0.532	0.523	-2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	19	0.0760	0.0717	-6	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.403	0.427	6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	22	1.09	1.19	10	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	21	0.139	0.142	3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.227	0.240	6	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	22	1.20	1.35	12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	22	1.22	1.33	9	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	110	0.0121	0.0131	8	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.271	0.280	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	110	0.410	0.432	5	NA	± 30 %	AverageRF
Acetone	100	93	0.0296	0.0276	-7	NA	± 30 %	AverageRF
Benzene	20	22	0.899	0.979	9	NA	± 30 %	AverageRF
Bromochloromethane	20	21	0.135	0.143	6	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.231	0.244	5	NA	± 30 %	AverageRF
Bromoform	20	22	0.218	0.239	10	NA	± 30 %	AverageRF
Bromomethane	20	22	0.176	0.192	9	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.689	0.795	15	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.172	0.181	NA	-3	± 30 %	Linear
Chlorobenzene	20	22	1.48	1.62	10	NA	± 30 %	AverageRF
Chloroethane	20	22	0.161	0.175	9	NA	± 30 %	AverageRF
Chloroform	20	21	0.345	0.364	6	NA	± 30 %	AverageRF
Chloromethane	20	22	0.323	0.351	9	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.290	0.306	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	0.935	0.996	6	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.365	0.398	NA	0	± 30 %	Linear
Dibromochloromethane	20	21	0.445	0.478	7	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.164	0.164	NA	-11	± 30 %	Linear
Ethylbenzene	20	23	2.46	2.81	14	NA	± 30 %	AverageRF
Isopropylbenzene	20	23	2.14	2.41	13	NA	± 30 %	AverageRF
m,p-Xylenes	40	47	1.73	2.03	17	NA	± 30 %	AverageRF
Methyl Acetate	20	21	0.290	0.301	4	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.358	0.363	2	NA	± 30 %	AverageRF
Methylene Chloride	20	22	0.251	0.271	8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	23	1.81	2.07	14	NA	± 30 %	AverageRF
Styrene	20	22	1.52	1.70	12	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	23	0.451	0.515	14	NA	± 30 %	AverageRF
Toluene	20	23	2.38	2.71	14	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.307	0.328	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	21	0.661	0.696	5	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.209	0.229	10	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.196	0.206	5	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	22	0.183	0.199	9	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.242	0.264	NA	-2	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

File ID: J:\MS52\DATA\MS52-120322\0322-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	1.21	1.10	-9	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	18	0.01	0.786	0.715	-9	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	1.01	0.998	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.675	0.656	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	19	0.1	0.745	0.708	-5	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	17	0.01	0.629	0.526	-16	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	1.69	1.63	-4	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	0.01	1.92	1.86	-3	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.01	0.232	0.213	-8	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.878	0.824	-6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	18	0.01	2.42	2.22	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	18	0.01	0.536	0.491	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	50		0.251	0.251	0	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	19	0.01	0.396	0.378	-4	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	19	0.01	2.67	2.49	-7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	18	0.01	2.65	2.44	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.126	0.129	3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.01	0.514	0.521	1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	47		0.918	0.861	-6	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.01	0.729	0.733	1	NA	± 30 %	AverageRF
Acetone	100	98	0.01	0.0878	0.0782	NA	-2	± 30 %	Linear
Benzene	20	19	0.01	1.74	1.63	-6	NA	± 30 %	AverageRF
Bromochloromethane	20	20	0.01	0.265	0.260	-2	NA	± 30 %	AverageRF
Bromodichloromethane	20	18	0.01	0.592	0.536	-9	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.693	0.631	-9	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.267	0.247	-7	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	1.03	1.20	16	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.667	0.591	NA	-17	± 30 %	Linear
Chlorobenzene	20	19	0.3	3.32	3.19	-4	NA	± 30 %	AverageRF
Chloroethane	20	19	0.01	0.302	0.288	-4	NA	± 30 %	AverageRF
Chloroform	20	18	0.01	0.828	0.729	-12	NA	± 20 %	AverageRF
Chloromethane	20	17	0.1	0.551	0.480	-13	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	19	0.01	0.573	0.541	-6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	19	0.01	1.71	1.63	-5	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.684	0.674	-2	NA	± 30 %	AverageRF
Dibromochloromethane	20	18	0.01	1.09	0.995	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.241	0.238	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.01	0.554	0.489	-12	NA	± 30 %	AverageRF
Ethylbenzene	20	19	0.01	5.75	5.57	-3	NA	± 20 %	AverageRF
Isopropylbenzene	20	21	0.01	4.91	5.09	4	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	39	0.01	4.53	4.39	-3	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.510	0.509	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	1.08	1.05	-2	NA	± 30 %	AverageRF
Methylene Chloride	20	17	0.01	0.533	0.395	NA	-17	± 30 %	Linear
o-Xylene	20	19	0.01	4.72	4.49	-5	NA	± 30 %	AverageRF
Styrene	20	20	0.01	3.52	3.47	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.01	1.13	1.12	-1	NA	± 30 %	AverageRF
Toluene	20	19	0.01	5.02	4.81	-4	NA	± 20 %	AverageRF
Toluene-d8	50	51		2.48	2.51	1	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	18	0.01	0.609	0.556	-9	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	1.58	1.46	-8	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	19	0.01	0.516	0.490	-5	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	18	0.01	0.810	0.722	-11	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	17	0.01	0.405	0.353	-13	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.434	0.432	-1	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

File ID: J:\MS53\DATA\MS53-120330\0330-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.459	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.208	-6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.719	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.398	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.256	11	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	18	0.01	0.351	0.323	-8	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.468	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	15	0.01	0.0760	0.0577	-24	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.373	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	0.01	1.09	1.08	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.136	-2	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	49		0.145	0.144	-1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.238	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.22	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	0.01	1.22	1.26	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0127	5	NA	± 30 %	AverageRF
2-Hexanone	100	94	0.01	0.271	0.254	-6	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	54		0.917	0.993	8	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.384	-6	NA	± 30 %	AverageRF
Acetone	100	93	0.01	0.0296	0.0274	-7	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.927	3	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.132	-3	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.228	-2	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.218	0.201	-8	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.162	-8	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.172	0.159	NA	-15	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.160	0	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.338	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.378	17	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.296	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.934	0	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.387	NA	-2	± 30 %	Linear
Dibromochloromethane	20	19	0.01	0.445	0.411	-8	NA	± 30 %	AverageRF
Dibromofluoromethane	50	49		0.257	0.254	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.194	NA	6	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.49	1	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.50	17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.290	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.357	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.252	0	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.80	-1	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.50	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.428	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.33	-2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.299	-2	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	19	0.01	0.661	0.637	-4	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.207	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.183	0	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.278	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

File ID: J:\MS53\DATA\MS53-120402\0402-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.460	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.212	-4	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.729	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.352	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.399	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.01	0.230	0.263	14	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.470	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0614	-19	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	18	0.01	0.403	0.371	-8	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.02	-6	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	19	0.01	0.139	0.132	-5	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	47		0.145	0.137	-6	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.237	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.21	-1	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.01	0.0121	0.0118	-3	NA	± 30 %	AverageRF
2-Hexanone	100	92	0.01	0.271	0.249	-8	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	53		0.917	0.967	5	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.386	-6	NA	± 30 %	AverageRF
Acetone	100	88	0.01	0.0296	0.0261	-12	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.965	7	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.129	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.234	1	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.211	-3	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.176	0.165	-6	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	0.689	0.804	17	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.170	NA	-9	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.46	-1	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.163	1	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.336	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.375	16	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.01	0.290	0.305	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.946	1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.407	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.257	0.259	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.191	NA	5	± 30 %	Linear
Ethylbenzene	20	19	0.01	2.46	2.36	-4	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.43	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.283	-2	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.360	1	NA	± 30 %	AverageRF
Methylene Chloride	20	21	0.01	0.251	0.261	4	NA	± 30 %	AverageRF
o-Xylene	20	21	0.01	1.81	1.87	3	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.52	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.429	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.42	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.309	1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.653	-1	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.208	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.194	-1	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.186	2	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.242	0.276	NA	2	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

File ID: J:\MS53\DATA\MS53-120403\0403-03.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	0.489	0.451	-8	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.210	-5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.734	1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.1	0.391	0.401	3	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.251	9	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.481	-10	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0607	-20	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.375	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.05	-3	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.137	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	48		0.145	0.140	-3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.233	3	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.20	1.23	3	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.20	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0124	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.271	0.252	-7	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	51		0.917	0.942	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.385	-6	NA	± 30 %	AverageRF
Acetone	100	92	0.01	0.0296	0.0273	-8	NA	± 30 %	AverageRF
Benzene	20	20	0.01	0.899	0.915	2	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.128	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.01	0.231	0.238	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.202	-7	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.157	-11	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.166	NA	-11	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	21	0.01	0.161	0.165	3	NA	± 30 %	AverageRF
Chloroform	20	19	0.01	0.345	0.329	-5	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.369	14	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.289	0	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.922	-1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.406	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48		0.257	0.248	-4	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.189	NA	4	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.51	2	NA	± 20 %	AverageRF
Isopropylbenzene	20	22	0.01	2.14	2.38	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.78	3	NA	± 30 %	AverageRF
Methyl Acetate	20	19	0.01	0.290	0.272	-6	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.358	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.246	-2	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.82	0	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.51	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.420	-7	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.44	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.31	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.304	-1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.651	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.206	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.01	0.183	0.192	5	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.280	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Sample Prep and Screen Data

p:\Stealth\Crystal.rpt\DividerF.rpt

Preparation Information

Group ID:	JWG1200305	**Prep Method:**	EPA 5035	**Prep Date:**	03/22/12 09:17
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
J1201360-025	CRHE-188849-IDW-0321201	8260B	SOIL	5.9300g	5mL	84
J1201360-026	CRHE-188797-IDW-0321201	8260B	SOIL	5.1200g	5mL	88
J1201360-027	CRHE-188842-IDW-0321201	8260B	SOIL	5.9600g	5mL	83
J1201360-028	CRHE-188838-IDW-0321201	8260B	SOIL	5.3500g	5mL	81
JWG1200305-1	Lab Control Sample	8260B	SOIL	5.00g	5ml	100
JWG1200305-2	Method Blank	8260B	SOIL	5.00g	5ml	100

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-025	264703	42346	1uL			
J1201360-026	264704	42346	1uL			
J1201360-027	264705	42346	1uL			
J1201360-028	264706	42346	1uL			
JWG1200305-1	264707	42346	1uL	42183/40123	20uL	
JWG1200305-2	264708	42346	1uL			

Comments: _____

Started By: SAllen Assisted By: _____ Training Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Preparation Information

Group ID:	JWG1200321	**Prep Method:**	EPA 5030B	**Prep Date:**	03/30/12 10:42
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-001	CRHE-MW0032-045.0-0319:	8260B	WATER	10ml	10ml
J1201360-002	CRHE-MW0030-010.0-0319:	8260B	WATER	10ml	10ml
J1201360-003	CRHE-MW0023-065.0-0319:	8260B	WATER	10ml	10ml
J1201360-004	CRHE-MW0031-045.0-0319:	8260B	WATER	10ml	10ml
J1201360-005	CRHE-IW0020I-045.0-03192	8260B	WATER	10ml	10ml
J1201360-006	CRHE-MW0039-030.0-0319:	8260B	WATER	10ml	10ml
J1201360-007	CRHE-MW0038-010.0-0319:	8260B	WATER	10ml	10ml
J1201360-008	EB01-03192012	8260B	WATER	10ml	10ml
J1201360-009	CRHE-IW0015I-040.0-03192	8260B	WATER	10ml	10ml
J1201360-010	CRHE-MW0034-038.5-0320:	8260B	WATER	10ml	10ml
J1201360-011	CRHE-IW0019I-040.0-03202	8260B	WATER	10ml	10ml
J1201360-012	CRHE-MW0033-048.5-0320:	8260B	WATER	10ml	10ml
J1201360-013	CRHE-IW0021I-045.0-03202	8260B	WATER	10ml	10ml
J1201360-014	CRHE-MW0035-045.0-0320:	8260B	WATER	10ml	10ml
J1201360-015	CRHE-MW0028-040.0-0320:	8260B	WATER	10ml	10ml
J1201360-016	CRHE-MW0037-030.0-0320:	8260B	WATER	10ml	10ml
J1201360-017	CRHE-IW0017I-030.0-03202	8260B	WATER	10ml	10ml
JWG1200321-1	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200321-2	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-001	264821	40951	1uL			
J1201360-002	264822	40951	1uL			
J1201360-003	264823	40951	1uL			
J1201360-004	264824	40951	1uL			
J1201360-005	264825	40951	1uL			
J1201360-006	264826	40951	1uL			
J1201360-007	264827	40951	1uL			
J1201360-008	264828	40951	1uL			
J1201360-009	264829	40951	1uL			
J1201360-010	264830	40951	1uL			
J1201360-011	264831	40951	1uL			
J1201360-012	264832	40951	1uL			
J1201360-013	264833	40951	1uL			
J1201360-014	264834	40951	1uL			
J1201360-015	264835	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes No

Received By: _____ Date: _____

Group ID:	JWG1200321	**Prep Method:**	EPA 5030B	**Prep Date:**	03/30/12 10:42
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-016	264836	40951	1uL			
J1201360-017	264837	40951	1uL			
JWG1200321-1	264838	40951	1uL	42546/40123	20uL	
JWG1200321-2	264839	40951	1uL			

Comments

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date:

Received By: Date: Extracts Examined Yes No

Preparation Information

Group ID:	JWG1200325	**Prep Method:**	EPA 5030B	**Prep Date:**	04/02/12 08:51
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-001	CRHE-MW0032-045.0-0319	8260B	WATER	10ml	10ml
J1201360-004	CRHE-MW0031-045.0-0319	8260B	WATER	10ml	10ml
J1201360-005	CRHE-IW0020I-045.0-03192	8260B	WATER	10ml	10ml
J1201360-006	CRHE-MW0039-030.0-0319	8260B	WATER	10ml	10ml
J1201360-010	CRHE-MW0034-038.5-0320	8260B	WATER	10ml	10ml
J1201360-011	CRHE-IW0019I-040.0-03202	8260B	WATER	10ml	10ml
J1201360-014	CRHE-MW0035-045.0-0320	8260B	WATER	10ml	10ml
J1201360-015	CRHE-MW0028-040.0-0320	8260B	WATER	10ml	10ml
J1201360-017	CRHE-IW0017I-030.0-03202	8260B	WATER	10ml	10ml
J1201360-018	CRHE-IW0014I-040.0-03212	8260B	WATER	10ml	10ml
J1201360-019	CRHE-MW0029-045.0-0321	8260B	WATER	10ml	10ml
J1201360-020	CRHE-MW0026-035.0-0321	8260B	WATER	10ml	10ml
J1201360-021	CRHE-MW0022-065.0-0321	8260B	WATER	10ml	10ml
J1201360-022	CRHE-MW0027-045.0-0321	8260B	WATER	10ml	10ml
J1201360-023	CRHE-MW0024-010.0-0321	8260B	WATER	10ml	10ml
J1201360-029	Trip Blank	8260B	WATER	10ml	10ml
JWG1200325-1	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200325-2	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-001	264845	40951	1uL			
J1201360-004	264846	40951	1uL			
J1201360-005	264847	40951	1uL			
J1201360-006	264848	40951	1uL			
J1201360-010	264849	40951	1uL			
J1201360-011	264850	40951	1uL			
J1201360-014	264851	40951	1uL			
J1201360-015	264852	40951	1uL			
J1201360-017	264853	40951	1uL			
J1201360-018	264854	40951	1uL			
J1201360-019	264855	40951	1uL			
J1201360-020	264856	40951	1uL			
J1201360-021	264857	40951	1uL			
J1201360-022	264858	40951	1uL			
J1201360-023	264843	40951	1uL			
J1201360-029	264844	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes / No

Completed By: SAllen Assisted By: _____ Yes / No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes / No

Received By: _____ Date: _____

Group ID:	JWG1200325	**Prep Method:**	EPA 5030B	**Prep Date:**	04/02/12 08:51
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
JWG1200325-1	264859	40951	1uL	42546/42796	20uL	
JWG1200325-2	264860	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

Preparation Information

Group ID:	JWG1200333	**Prep Method:**	EPA 5030B	**Prep Date:**	04/03/12 10:53
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-018	CRHE-IW0014I-040.0-03212	8260B	WATER	10ml	10ml
J1201360-019	CRHE-MW0029-045.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-020	CRHE-MW0026-035.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-021	CRHE-MW0022-065.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-022	CRHE-MW0027-045.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-024	CRHE-MW0025-030.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-024	CRHE-MW0025-030.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-030	CHRE-MW0036-010.0-0320[illegible]	8260B	WATER	10ml	10ml
J1201388-017	GAIN-FW-22B-02-032112	8260B	WATER	10ml	10ml
J1201388-018	GAIN-FW-22B-01-032112	8260B	WATER	10ml	10ml
J1201388-019	GAIN-FB-03-032112	8260B	WATER	10ml	10ml
J1201388-020	GAIN-EB-03-032112	8260B	WATER	10ml	10ml
J1201388-021	GAIN-Trip Blank-032112	8260B	WATER	10ml	10ml
J1201388-023	GAIN-FW-29B-032112	8260B	WATER	10ml	10ml
J1201388-024	GAIN-FW-99-032112	8260B	WATER	10ml	10ml
J1201388-025	GAIN-FW-29C-032112	8260B	WATER	10ml	10ml
JWG1200333-1	Matrix Spike	8260B	WATER	10ml	10ml
JWG1200333-2	Duplicate Matrix Spike	8260B	WATER	10ml	10ml
JWG1200333-3	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200333-4	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Parent Lab Code	Comments
JWG1200333-1	J1201388-023	
JWG1200333-2	J1201388-023	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-018	264883	40951	1uL			
J1201360-019	264884	40951	1uL			
J1201360-020	264885	40951	1uL			
J1201360-021	264886	40951	1uL			
J1201360-022	264887	40951	1uL			
J1201360-024	264881	40951	1uL			
J1201360-024	264888	40951	1uL			
J1201360-030	264882	40951	1uL			
J1201388-017	264889	40951	1uL			
J1201388-018	264890	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes No

Received By: _____ Date: _____

Group ID:	JWG1200333	**Prep Method:**	EPA 5030B	**Prep Date:**	04/03/12 10:53
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201388-019	264891	40951	1uL			
J1201388-020	264892	40951	1uL			
J1201388-021	264893	40951	1uL			
J1201388-023	264894	40951	1uL			
J1201388-024	264895	40951	1uL			
J1201388-025	264896	40951	1uL			
JWG1200333-1	264897	40951	1uL	42873/42796	20uL	
JWG1200333-2	264898	40951	1uL	42873/42796	20uL	
JWG1200333-3	264899	40951	1uL	42873/42796	20uL	
JWG1200333-4	264900	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

April 05, 2012 Service Request No: J1201360

Ms. Jill Johnson
Geosyntec Consultants
9515 Holsberry Road
Suite A
Pensacola, FL 32534

Laboratory Results for: KSC CRHE/FR1681

Dear Ms. Johnson:

Enclosed are the results of the sample(s) submitted to our laboratory on March 22, 2012. For your reference, these analyses have been assigned our service request number **J1201360**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. If required, the laboratory can provide uncertainty measurements for each method employed in sample analysis; this uncertainty measurement would be generated using method validation studies and the laboratory's quality control data.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Craig Myers
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida, #E82502. Other state accreditations include: Georgia, #958; Kentucky, #63; Louisiana, #02086; North Carolina, #527; South Carolina, #96021001; Texas, #T104704197-09-TX; Maine, #2011006; DoD #66206.

Columbia Analytical Services℠
ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE 904-739-2277 FAX 904-739-2011
Columbia Analytical Services, Inc.
Part of the ALS Group A Campbell Brothers Limited Company
www.caslab.com ▪ www.alsglobal.com

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Non CLP Tier III (w/o Raw Data)

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This report contains a total of 283 pages

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	GeoSyntec Consultants	**Service Request No.:**	J1201360
Project:	KSC CRHE	**Date Received:**	3/22/12
Sample Matrix:	Water/Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III data deliverables including validation summary forms. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Twenty-nine water samples and one trip blank were received for analysis at Columbia Analytical Services on 3/22/12. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq$6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260B: The upper control criterion was exceeded for the following analyte in Laboratory Control Samples (LCS) JWG1200321-1 and JWG1200333-3: Isopropylbenzene. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

General Chemistry Analyses:

No significant data anomalies were noted with this analysis.

Approved by_____ Date 4/5/12

Client: Geosyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1201360-001	CRHE-MW0032-045.0-03192012	3/19/12	11:00
J1201360-002	CRHE-MW0030-010.0-03192012	3/19/12	12:05
J1201360-003	CRHE-MW0023-065.0-03192012	3/19/12	14:40
J1201360-004	CRHE-MW0031-045.0-03192012	3/19/12	15:25
J1201360-005	CRHE-IW0020I-045.0-03192012	3/19/12	16:40
J1201360-006	CRHE-MW0039-030.0-03192012	3/19/12	17:39
J1201360-007	CRHE-MW0038-010.0-03192012	3/19/12	18:10
J1201360-008	EB01-03192012	3/19/12	15:30
J1201360-009	CRHE-IW0015I-040.0-03192012	3/19/12	18:10
J1201360-010	CRHE-MW0034-038.5-03202012	3/20/12	09:37
J1201360-011	CRHE-IW0019I-040.0-03202012	3/20/12	09:40
J1201360-012	CRHE-MW0033-048.5-03202012	3/20/12	10:17
J1201360-013	CRHE-IW0021I-045.0-03202012	3/20/12	11:23
J1201360-014	CRHE-MW0035-045.0-03202012	3/20/12	14:11
J1201360-015	CRHE-MW0028-040.0-03202012	3/20/12	14:20
J1201360-016	CRHE-MW0037-030.0-03202012	3/20/12	14:41
J1201360-017	CRHE-IW0017I-030.0-03202012	3/20/12	15:10
J1201360-018	CRHE-IW0014I-040.0-03212012	3/21/12	09:05
J1201360-019	CRHE-MW0029-045.0-03212012	3/21/12	11:00
J1201360-020	CRHE-MW0026-035.0-03212012	3/21/12	12:00
J1201360-021	CRHE-MW0022-065.0-03212012	3/21/12	15:05
J1201360-022	CRHE-MW0027-045.0-03212012	3/21/12	15:45
J1201360-023	CRHE-MW0024-010.0-03212012	3/21/12	17:50
J1201360-024	CRHE-MW0025-030.0-03212012	3/21/12	18:30
J1201360-025	CRHE-188849-IDW-03212012	3/21/12	16:15
J1201360-026	CRHE-188797-IDW-03212012	3/21/12	16:40
J1201360-027	CRHE-188842-IDW-03212012	3/21/12	16:45
J1201360-028	CRHE-188838-IDW-03212012	3/21/12	17:00
J1201360-029	Trip Blank	3/19/12	00:00
J1201360-030	CHRE-MW0036-010.0-03202012	3/20/12	15:21

Florida DEP Data Qualifiers

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Columbia Analytical Services

Chain of Custody Documentation

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

9143 Philips Highway, Suite 200, Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011

Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To: Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. Other

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	8260B (Full List VOC)	REMARKS
CRHE-MW0022-065.0-03212012		3/21/2012	1505	W	3		X	
CRHE-MW0023-065.0-03192012		3/19/2012	1440	W	3		X	
CRHE-MW0024-010.0-03212012		3/21/2012	1750	W	3		X	
CRHE-MW0025-030.0-03212012		3/21/2012	1830	W	3		X	
CRHE-MW0026-035.0-03212012		3/21/2012	1200	W	3		X	
CRHE-MW0027-045.0-03212012		3/21/2012	1545	W	3		X	
CRHE-MW0028-040.0-03202012		3/20/2012	1420	W	3		X	
CRHE-MW0029-045.0-03212012		3/21/2012	1100	W	3		X	
CRHE-MW0030-010.0-03192012		3/19/2012	1205	W	3		X	
CRHE-MW0031-045.0-03192012		3/19/2012	1525	W	3		X	

Special Instructions/Comments:

W = Water

NASA RIS KEDD → Data Deliverable

3.0°C F71

TURNAROUND REQUIREMENTS

RUSH (SURCHARGES APPLY)

1 STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

I. Results Only

II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

III. Results + QC and Calibration Summaries

IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P O #

Bill to: Geosyntec

316 S. Baylen Street Ste. 201

Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Geosyntec	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Lauren Petty	Firm: CAS/ALS	Firm	Firm	Firm	Firm
Date/Time: 03/22/12/0530	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

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SR # J1201360

CAS Contact

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Project Name	Project Number
KSC-CRHE	FR1681/17*4
Report To Jill Johnson	Report CC
jjohnson@geosyntec.com	
Company/Address	
316 S. Baylen Street, Suite 201	
Pensacola, FL 32502	
Phone #	FAX #
850-477-6542	N/A
Sampler's Signature	Sampler's Printed Name
	Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn Acetate; 6. MeOH; 7. NaHSO4; 8. Other

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	8260B (Full List VOC	REMARKS
CRHE-MW0032-045.0-03192012		3/19/2012	1100	W			X	
CRHE-MW0033-048 5-03202012		3/20/2012	1017	W			X	
CRHE-MW0034-038 5-03202012		3/20/2012	0937	W			X	
CRHE-MW0035-045 0-03202012		3/20/2012	1411	W			X	
CRHE-MW0036-010 0-03202012		3/20/2012	1521	W			X	
CRHE-MW0037-030.0-03202012		3/20/2012	1441	W			X	
CRHE-MW0038-010 0-03192012		3/19/2012	1810	W			X	
CRHE-MW0039-030 0-03192012		3/19/2012	1739	W			X	
CRHE-MW0014I-040 0-03212012		3/21/2012	0905	W			X	
CRHE-IW0015I-040 0-03192012		3/19/2012	1810	W			X	

Special Instructions/Comments:

W = Water

Data Deliverable → NASA RIS KEDD

3.0 c T71

TURNAROUND REQUIREMENTS

[ ] RUSH (SURCHARGES APPLY)

[x] STANDARD

REQUESTED FAX DATE

REQUESTED REPORT DATE

REPORT REQUIREMENTS

[ ] I. Results Only

[ ] II. Results + QC Summaries

[ ] III. Results + QC and Calibration Summaries

[ ] IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION

P.O. #

Bill to Geosyntec

316 S. Baylen Street Ste. 201

Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Lauren Petty	Printed Name: Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS (ALS)	Firm	Firm	Firm	Firm
Date/Time: 3/22/12 1253	Date/Time: 3.22.12 0930	Date/Time	Date/Time	Date/Time	Date/Time

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CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1201360

CAS Contact

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Project Name: KSC-CRHE	Project Number: FR1681/17*4
Report To: Jill Johnson jjohnson@geosyntec.com	Report CC:
Company/Address: 316 S. Baylen Street, Suite 201 Pensacola, FL 32502	
Phone #: 850-477-6542	FAX #: N/A
Sampler's Signature:	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	8260B (Full List VOC	8260B (Full List VOC	8260B (Full List VOC	REMARKS
Preservative						1	0	6	
CRHE-IW0017I-030 0-03202012		3/20/2012	1510	W	3	X			
CRHE-IW0019I-040 0-03202012		3/20/2012	0940	W	3	X			
CRHE-IW0020I-045 0-03192012		3/19/2012	1640	W	3	X			
CRHE-IW0021I-045 0-03202012		3/20/2012	1123	W	3	X			
EB01-03192012		3/19/2012	1530	W	3	X			
CRHE-188849-IDW-03212012		3/21/2012	1615	S	4		3	1	
CRHE-188797-IDW-03212012		3/21/2012	1640	S	4		3	1	
CRHE-188842-IDW-03212012		3/21/2012	1645	S	4		3	1	
CRHE-188838-IDW-03212012		3/21/2012	1700	S	4		3	1	
Trip Blank		Lab Provided			2	X			

Preservative Key: 0 None; 1 HCL; 2 HNO3; 3 H2SO4; 4 NaOH; 5 Zn Acetate; 6 MeOH; 7 NaHSO4; 8. Other

Special Instructions/Comments:

W = Water
S = Soil

NASA RISKDD → Data Deliverable
3.0°C TM

TURNAROUND REQUIREMENTS

RUSH (SURCHARGES APPLY)

STANDARD

PROJECT REQUIRED TAT (DATE)

REQUESTED REPORT DATE

REPORT REQUIREMENTS

I. Results Only

II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

III. Results + QC and Calibration Summaries

IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. #

Bill to: Geosyntec
316 S. Baylen Street Ste. 201
Pensacola, FL 32502

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Lauren Petty	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Geosyntec	Firm: CAS LAS	Firm	Firm	Firm	Firm
Date/Time: 3/22/12/0530	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

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PAGE 1 OF 3

SR # J1201360
CAS Contact

Project Name: KSC-CRHE	Project Number: FR1681
Project Manager: Bill Johnson	Email Address: bjohnson@grosyntec.com
Company/Address: 316 S. Baylen Street, Suite 201, Pensacola, FL 32502	
Phone #: 850-477-6547	FAX#: 850-477-6707
Sampler's Signature: [signature]	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and [redacted])

PRESERVATIVE: HCl

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	6200 (VOH)
CRHE-MW0032-03192012		3/19/12	1100	W	3	✓
CRHE-MW0030-03192012		3/19/12	1205			
CRHE-MW0023-03192012			1440			
CRHE-MW0031-03192012			1525			
CRHE-MW0020I-03192012			1640			
CRHE-MW0039-03192012			1739			
CRHE-MW0036-03192012			1810			
EB01-03192012			1530			✓
CRHE-MW0015I-03192012		3/19/12	1910			
CRHE-MW0034-03202012		3/20/12	0937			

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

W= Water

Will email Report Requirements 3/22.

See QAPP ☐ 3.0°C T71

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE: _____
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
___ V. Speicalized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO: Grosyntec
316 S Baylen St, Ste 201
Pensacola, FL 32502

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature [signature]	Signature	Signature	Signature	Signature
Printed Name	Printed Name C Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm CAS/ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 2 OF 3

SR # 31201360

CAS Contact

Project Name: KSC - CRHE	Project Number: FR1681
Project Manager: Jill Johnson	Email Address: JJohnson@geosyntec.com
Company/Address: 316 S. Baylen Street, Ste 201, Pensacola, FL 32502	
Phone #: 850-477-6547	FAX#: 850-477-6707
Sampler's Signature:	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number a [redacted]

PRESERVATIVE: 1

NUMBER OF CONTAINERS

8260 (VOA)

0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	8260 (VOA)	REMARKS/ ALTERNATE DESCRIPTION
CRHE-IW0019I-03202012		3/20/12	0940	W	3	X	
CRHE-MW0033-03202012		"	1017	"	"	"	
CRHE-~~MW~~IW0021I-03202012			1123				
CRHE-MW0035-03202012			1411				
CRHE-MW0028-03202012			1420				
CRHE-MW0037-03202012			1441				
CRHE-IW0017I-03202012			1570				
CRHE-IW0014I-03202012		3/21/12	0905				
CRHE-MW0029-03202012			1100				
CRHE-MW0026-03212012			1200				

SPECIAL INSTRUCTIONS/COMMENTS

WE Water

See QAPP ☐ 3.0 °C T71

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)

X STANDARD

REQUESTED FAX DATE: _____

REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

____ V. Speicalized Forms / Custom Report

Edata ____ Yes ____ No

INVOICE INFORMATION

PO#

BILL TO: SE pay

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
2					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name: Bauer	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: CAS/ACS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 3.22.12 0730	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 3 OF 3

SR # 5120360
CAS Contact

Project Name: KSC - CRHE	Project Number: FR11681
Project Manager: Jill Johnson	Email Address: JJohnson@geosyntec.com
Company/Address: 316 S. Baylen Street Ste. 201, Pensacola, FL 32502	
Phone #: 805-477-6547	FAX#: 850-477-6707
Sampler's Signature	Sampler's Printed Name: Lauren Petty

ANALYSIS REQUESTED (Include Method Number and [redacted]

PRESERVATIVE: 1 | 0 | 6

NUMBER OF CONTAINERS

8260 (VOA)
8260 (VOA)
8260 (VOA)

1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX					
CRHE-MW0022-032120 12		3/21/12	1505	W	3	X			
CRHE-MW0027-032120 12			1545						
CRHE-MW0024-032120 12			1750						
CRHE-MW0025-032120 12			~~1825~~ 1830						
~~CRHE-IDW-188849 MP~~				~~SP~~					
CRHE-188849-IDW-032120 12			1615	S	4		3	1	
CRHE-188797-IDW-032120 12			1640				3	1	
CRHE-188842-IDW-032120 12			1645				3	1	
CRHE-188838-IDW-032120 12			1700				3	1	
TRIP Blank		LAB Provided		W	2	2			

SPECIAL INSTRUCTIONS/COMMENTS

CRHE-MW0036-032020 12 3/20/12 1521 W 3

W = Water

S = Soil

* Added per client SL 3/23/12

3.0°C T71

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
X STANDARD
REQUESTED FAX DATE:
REQUESTED REPORT DATE:

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO: See pg 1

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
1 3					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm CAS/ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time 3.22.12 0930	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Retained by Client

JSCOC-3/11

Columbia Analytical Services™

Cooler Receipt Form

Client: Geosyntec Service Request #: J1201360

Project: KSC - CRHE

Cooler received on 3.22.12 (Lab 3.23.12) and opened on 3.22.12 by GB

COURIER: CAS UPS FEDEX (Client) Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	(Yes)	No					
	If yes, how many and where?	#: 1 (on lid)	other					
2	Were seals intact and signature and date correct?	(Yes)	No	N/A				
3	Were custody papers properly filled out?	(Yes)	No	N/A				
4	Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)	3.0						
5	Thermometer ID	IR1						
6	Temperature Blank Present?	(Yes)	No					
7	Were Ice or Ice Packs present	(Ice)	Ice Packs	No				
8	Did all bottles arrive in good condition (unbroken, etc....)?	(Yes)	No	N/A				
9	Type of packing material present	Netting	(Vial Holder)	(Bubble Wrap)				
		Paper	Styrofoam	Other	N/A			
10	Were all bottle labels complete (sample ID, preservation, etc....)?	(Yes)	No	N/A				
11	Did all bottle labels and tags agree with custody papers?	Yes	(No)	N/A				
12	Were the correct bottles used for the tests indicated?	(Yes)	No	N/A				
13	Were all of the preserved bottles received with the appropriate preservative? HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 Preservative additions noted below	Yes	No	(N/A)				
14	Were all samples received within analysis holding times?	(Yes)	No	N/A				
15	Were all VOA vials free of air bubbles? If present, note below	(Yes)	No	N/A				
16	Where did the bottles originate?	(CAS)	Client					

Sample ID	Reagent	Lot #	ml added	Initials Date/Time
			(1)	

Additional comments and/or explanation of all discrepancies noted above: 1 of 3 volatile vial label has the ID as MW0031-03192012 for MW0032-03192012. (2) Sample date & time matches Sample time on labels is 1832 for MW0038-03192012. (3) Sample ID on labels is

Client approval to run samples if discrepancies noted: Date:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # : J 1201360

Date: 3.22.12 Initials: GB

Note that pH is check and meets the required pH criterion listed in the column heading unless otherwise noted on the cooler receipt form.

Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	40mL	40mL	40mL	125mL	125mL	125mL	125mL	250mL	250mL	250mL	250mL	250mL	250mL	250mL	500mL	500mL	500mL	500mL	500mL	1L	1L	1L	1L	1L	2oz	4oz	8oz	16oz	100ml	Ziplock	Misc.	
Container	G	G	G	P	P	P	P	P	P	P	P	P	G	G	P	P	P	P	G	P	P	G	G	G	G	G	G	G	P	P	Misc.	
Preserve	N/A	HCl	Na2 S2O3	N/A	HCl	H2SO4	HNO3	N/A	H2SO4	HNO3	ZnAc2/ NaOH	NaOH	N/A	HNO3	N/A	HCl	H2SO4	HNO3	N/A	N/A	HNO3	N/A	HCl	H2SO4	N/A	N/A	N/A	N/A	Na2 S2O3	N/A	N/A	
Req. pH	N/A	<2	N/A	N/A	<2	<2	<2	N/A	<2	<2	>9	>12	N/A	<2	N/A	<2	<2	<2	N/A	N/A	<2	N/A	<2	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sample #	-	-		-	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-	-				-	-		-	
-1		3																														-1
-2																																-2
-3																																-3
-4																																-4
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-23																																-23
-24																																-24
-25	3																								1							-25
-26	3																								1							-26
-27	3																								1							-27
-28	3																								1							-28
-29		4	Trip Blank																													-29
-30																																-30
-31																																-31
-32																																-32
-33																																-33
-34																																-34
-35																																-35
-36																																-36
-37																																-37
-38																																-38
-39																																-39
-40																																-40

NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services™

Summary Package

9143 Philips Highway, Suite 200
Jacksonville, Florida 32256
Phone: (904) 739-2277 Fax (904) 739-2011
www.caslab.com

Organic Analysis:
Volatile Organic Compounds by GC/MS

Summary Package

Sample and QC Results

n:\Stealth\Crystal rpt\DividerA.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Cover Page - Organic Analysis Data Package
Volatile Organic Compounds by GC/MS

Sample Name	Lab Code	Date Collected	Date Received
CRHE-MW0032-045.0-03192012	J1201360-001	03/19/2012	03/22/2012
CRHE-MW0030-010.0-03192012	J1201360-002	03/19/2012	03/22/2012
CRHE-MW0023-065.0-03192012	J1201360-003	03/19/2012	03/22/2012
CRHE-MW0031-045.0-03192012	J1201360-004	03/19/2012	03/22/2012
CRHE-IW0020I-045.0-03192012	J1201360-005	03/19/2012	03/22/2012
CRHE-MW0039-030.0-03192012	J1201360-006	03/19/2012	03/22/2012
CRHE-MW0038-010.0-03192012	J1201360-007	03/19/2012	03/22/2012
EB01-03192012	J1201360-008	03/19/2012	03/22/2012
CRHE-IW0015I-040.0-03192012	J1201360-009	03/19/2012	03/22/2012
CRHE-MW0034-038.5-03202012	J1201360-010	03/20/2012	03/22/2012
CRHE-IW0019I-040.0-03202012	J1201360-011	03/20/2012	03/22/2012
CRHE-MW0033-048.5-03202012	J1201360-012	03/20/2012	03/22/2012
CRHE-IW0021I-045.0-03202012	J1201360-013	03/20/2012	03/22/2012
CRHE-MW0035-045.0-03202012	J1201360-014	03/20/2012	03/22/2012
CRHE-MW0028-040.0-03202012	J1201360-015	03/20/2012	03/22/2012
CRHE-MW0037-030.0-03202012	J1201360-016	03/20/2012	03/22/2012
CRHE-IW0017I-030.0-03202012	J1201360-017	03/20/2012	03/22/2012
CRHE-IW0014I-040.0-03212012	J1201360-018	03/21/2012	03/22/2012
CRHE-MW0029-045.0-03212012	J1201360-019	03/21/2012	03/22/2012
CRHE-MW0026-035.0-03212012	J1201360-020	03/21/2012	03/22/2012
CRHE-MW0022-065.0-03212012	J1201360-021	03/21/2012	03/22/2012
CRHE-MW0027-045.0-03212012	J1201360-022	03/21/2012	03/22/2012
CRHE-MW0024-010.0-03212012	J1201360-023	03/21/2012	03/22/2012
CRHE-MW0025-030.0-03212012	J1201360-024	03/21/2012	03/22/2012
CRHE-188849-IDW-03212012	J1201360-025	03/21/2012	03/22/2012
CRHE-188797-IDW-03212012	J1201360-026	03/21/2012	03/22/2012
CRHE-188842-IDW-03212012	J1201360-027	03/21/2012	03/22/2012
CRHE-188838-IDW-03212012	J1201360-028	03/21/2012	03/22/2012
Trip Blank	J1201360-029	03/19/2012	03/22/2012
CHRE-MW0036-010.0-03202012	J1201360-030	03/20/2012	03/22/2012

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: James Nicholson

Date: 4/4/12 Title: Organics Manager

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.54**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**0.57**	I	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.62**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**6.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**13**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**0.31**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.30**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.71**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**8.2**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**83**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**5.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**0.70**	I	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.46**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.21**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**59**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**6.0**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**200**		10	2.2	10	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.49**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**33**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**0.92**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**79**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.49**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**0.96**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.50**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.43**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**92**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	113	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	97	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**2.0**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.21**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**76**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	27		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.36**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**3.4**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**12**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.2**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**140**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**150**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	101	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**4.1**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.48**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.3**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**1000**		20	7.2	20	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.3**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.25**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**18**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**530**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	97	86-112	03/30/12	Acceptable
Toluene-d8	102	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.92**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**9.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.42**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**99**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**3.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**1.4**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**0.52**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**33**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	96	86-112	03/30/12	Acceptable
Toluene-d8	103	88-115	03/30/12	Acceptable

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.98**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.26**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.55**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.23**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.44**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.59**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.31**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**4.2**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**3.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.55**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**4.1**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**180**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	110	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.2**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.44**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**8.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.20**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**19**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.32**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.52**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**90**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**4.0**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**3.6**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	99	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**1.4**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**1.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**420**		10	3.6	10	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**13**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**140**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**100**		10	2.2	10	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	112	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	100	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**3.5**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**9.1**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**6.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**0.41**	I	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**3600**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**0.22**	I	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.36**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**34**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1000**		100	16	100	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**2000**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	108	86-113	04/02/12	Acceptable
Dibromofluoromethane	95	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**0.51**	I	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**1.5**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.22**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	99	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**0.96**	I	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**2.7**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**790**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.22**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**14**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**1700**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**11**		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**0.74**	I	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**13**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**2.2**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**15**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**9700**		200	72	200	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**0.41**	I	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**75**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.60**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**7600**		200	44	200	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	92	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/02/12	Acceptable
Dibromofluoromethane	97	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	100	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Analytical Results

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	95	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	105	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	103	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	99	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.24	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.6	0.33	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.6	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.44	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	28	1.0	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.62	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.65	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	140	3.9	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.6	0.077	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	12	0.46	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.6	0.26	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.6	0.30	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.28	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.25	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.6	0.070	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**2.0**	I	56	0.17	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.6	0.082	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.6	0.56	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.6	0.20	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	23	0.29	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	23	0.28	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.6	0.27	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	102	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	22	I	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	103	64-135	03/22/12	Acceptable
Dibromofluoromethane	91	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.8	0.25	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.8	0.34	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.8	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.21	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.45	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	29	1.1	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.64	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.67	1	03/22/12	03/22/12	JWG1200305	
Acetone	**17**	I	150	4.1	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.8	0.080	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**2.1**	I	12	0.48	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.8	0.27	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.8	0.32	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.29	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.26	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.8	0.073	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	58	0.18	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.8	0.085	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.8	0.58	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.8	0.21	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	24	0.30	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	24	0.29	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.8	0.28	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	116	64-135	03/22/12	Acceptable
Dibromofluoromethane	99	74-125	03/22/12	Acceptable
Toluene-d8	108	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	95	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	102	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-MW0032-045.0-03192012	J1201360-001	97	109	99	98
CRHE-MW0030-010.0-03192012	J1201360-002	98	106	98	101
CRHE-MW0023-065.0-03192012	J1201360-003	100	107	99	96
CRHE-MW0031-045.0-03192012	J1201360-004	97	106	100	98
CRHE-IW0020I-045.0-03192012	J1201360-005	96	107	100	99
CRHE-MW0039-030.0-03192012	J1201360-006	99	113	99	97
CRHE-MW0038-010.0-03192012	J1201360-007	100	109	100	100
EB01-03192012	J1201360-008	97	106	99	101
CRHE-IW0015I-040.0-03192012	J1201360-009	101	107	99	100
CRHE-MW0034-038.5-03202012	J1201360-010	99	109	101	98
CRHE-IW0019I-040.0-03202012	J1201360-011	98	105	97	102
CRHE-MW0033-048.5-03202012	J1201360-012	96	109	96	103
CRHE-IW0021I-045.0-03202012	J1201360-013	99	109	99	99
CRHE-MW0035-045.0-03202012	J1201360-014	99	108	98	96
CRHE-MW0028-040.0-03202012	J1201360-015	95	110	98	98
CRHE-MW0037-030.0-03202012	J1201360-016	97	107	99	98
CRHE-IW0017I-030.0-03202012	J1201360-017	97	108	99	100
CRHE-IW0014I-040.0-03212012	J1201360-018	94	107	97	99
CRHE-MW0029-045.0-03212012	J1201360-019	98	112	99	100
CRHE-MW0026-035.0-03212012	J1201360-020	99	108	95	96
CRHE-MW0022-065.0-03212012	J1201360-021	99	107	99	98
CRHE-MW0027-045.0-03212012	J1201360-022	96	107	98	96
CRHE-MW0024-010.0-03212012	J1201360-023	98	107	99	98
CRHE-MW0025-030.0-03212012	J1201360-024	97	111	92	98
Trip Blank	J1201360-029	94	111	97	96
CHRE-MW0036-010.0-03202012	J1201360-030	97	111	97	100
Method Blank	JWG1200321-2	98	105	100	95
Method Blank	JWG1200325-2	99	105	99	98
Method Blank	JWG1200333-4	96	103	97	96
Lab Control Sample	JWG1200321-1	99	107	99	100
Lab Control Sample	JWG1200325-1	94	104	98	97
Lab Control Sample	JWG1200333-3	95	109	97	96

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	72-121
Sur2 =	4-Bromofluorobenzene	86-113
Sur3 =	Dibromofluoromethane	86-112
Sur4 =	Toluene-d8	88-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-188849-IDW-03212012	J1201360-025	94	99	96	101
CRHE-188797-IDW-03212012	J1201360-026	92	102	96	105
CRHE-188842-IDW-03212012	J1201360-027	90	103	91	105
CRHE-188838-IDW-03212012	J1201360-028	94	116	99	108
Method Blank	JWG1200305-2	94	95	96	102
Lab Control Sample	JWG1200305-1	94	97	98	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	80-120
Sur2 = 4-Bromofluorobenzene	64-135
Sur3 = Dibromofluoromethane	74-125
Sur4 = Toluene-d8	46-156

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-02.D
Instrument ID: MS52
Analysis Method: 8260B

Lab Code: JWG1200306-2
Analysis Lot: JWG1200306

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	53,457	11.60	47,863	9.16	122,997	6.17
	Upper Limit ==>	106,914	12.10	95,726	9.66	245,994	6.67
	Lower Limit ==>	26,729	11.10	23,932	8.66	61,499	5.67
	ICAL Result ==>	48,766	11.60	43,592	9.16	110,750	6.17
Associated Analyses							
Lab Control Sample	JWG1200305-1	52,658	11.60	48,614	9.16	125,564	6.17
Method Blank	JWG1200305-2	50,853	11.59	47,975	9.16	125,218	6.17
CRHE-188849-IDW-03212012	J1201360-025	45,168	11.60	46,360	9.16	121,432	6.17
CRHE-188797-IDW-03212012	J1201360-026	40,555	11.60	43,358	9.16	116,772	6.17
CRHE-188842-IDW-03212012	J1201360-027	40,415	11.60	42,767	9.17	117,887	6.17
CRHE-188838-IDW-03212012	J1201360-028	35,955	11.60	42,626	9.16	118,248	6.18

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200322-2
Analysis Lot: JWG1200322

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	328,039	11.12	413,475	8.80	1,184,883	5.51
	Upper Limit ==>	656,078	11.62	826,950	9.30	2,369,766	6.01
	Lower Limit ==>	164,020	10.62	206,738	8.30	592,442	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200321-1	318,654	11.12	397,222	8.80	1,171,291	5.51
Method Blank	JWG1200321-2	337,907	11.13	403,441	8.80	1,145,808	5.51
CRHE-MW0032-045.0-03192012	J1201360-001	315,754	11.13	399,126	8.80	1,148,047	5.51
CRHE-MW0030-010.0-03192012	J1201360-002	323,166	11.13	392,864	8.80	1,177,874	5.51
CRHE-MW0023-065.0-03192012	J1201360-003	322,551	11.13	384,128	8.80	1,104,427	5.52
CRHE-MW0031-045.0-03192012	J1201360-004	331,420	11.13	396,550	8.80	1,156,645	5.51
CRHE-IW0020I-045.0-03192012	J1201360-005	322,585	11.13	393,897	8.80	1,164,407	5.51
CRHE-MW0039-030.0-03192012	J1201360-006	319,516	11.13	401,946	8.80	1,172,242	5.51
CRHE-MW0038-010.0-03192012	J1201360-007	327,430	11.13	405,589	8.80	1,173,486	5.51
EB01-03192012	J1201360-008	330,521	11.13	389,632	8.80	1,146,764	5.51
CRHE-IW0015I-040.0-03192012	J1201360-009	332,367	11.13	389,217	8.80	1,147,109	5.52
CRHE-MW0034-038.5-03202012	J1201360-010	321,006	11.13	397,996	8.80	1,125,602	5.52
CRHE-IW0019I-040.0-03202012	J1201360-011	316,893	11.13	382,659	8.80	1,133,176	5.51
CRHE-MW0033-048.5-03202012	J1201360-012	324,878	11.13	388,136	8.80	1,169,094	5.52
CRHE-IW0021I-045.0-03202012	J1201360-013	320,327	11.13	393,071	8.80	1,149,686	5.51
CRHE-MW0035-045.0-03202012	J1201360-014	330,706	11.12	409,470	8.80	1,174,443	5.52
CRHE-MW0028-040.0-03202012	J1201360-015	319,532	11.13	409,711	8.80	1,202,891	5.51
CRHE-MW0037-030.0-03202012	J1201360-016	322,399	11.13	400,508	8.80	1,144,939	5.51
CRHE-IW0017I-030.0-03202012	J1201360-017	326,036	11.12	400,878	8.80	1,158,793	5.51

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 09:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200326-2
Analysis Lot: JWG1200326

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	338,282	11.13	419,066	8.80	1,182,437	5.51
	Upper Limit ==>	676,564	11.63	838,132	9.30	2,364,874	6.01
	Lower Limit ==>	169,141	10.63	209,533	8.30	591,219	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200325-1	322,206	11.13	386,918	8.80	1,106,267	5.51
Method Blank	JWG1200325-2	322,051	11.13	383,241	8.80	1,093,788	5.51
Trip Blank	J1201360-029	314,454	11.13	402,969	8.80	1,172,678	5.51
CRHE-MW0032-045.0-03192012D	J1201360-001	317,812	11.13	379,377	8.80	1,119,988	5.51
CRHE-MW0031-045.0-03192012D	J1201360-004	322,770	11.13	395,883	8.80	1,159,224	5.51
CRHE-IW0020I-045.0-03192012D	J1201360-005	319,432	11.13	390,271	8.80	1,120,582	5.51
CRHE-MW0039-030.0-03192012D	J1201360-006	325,142	11.13	389,370	8.80	1,108,624	5.51
CRHE-MW0034-038.5-03202012D	J1201360-010	327,008	11.13	395,803	8.80	1,096,028	5.51
CRHE-IW0019I-040.0-03202012D	J1201360-011	319,532	11.13	392,191	8.80	1,116,694	5.51
CRHE-MW0035-045.0-03202012D	J1201360-014	317,749	11.13	383,466	8.80	1,119,903	5.52
CRHE-MW0028-040.0-03202012D	J1201360-015	320,292	11.13	385,204	8.80	1,151,728	5.51
CRHE-IW0017I-030.0-03202012D	J1201360-017	313,536	11.13	395,840	8.80	1,123,689	5.51
CRHE-MW0027-045.0-03212012	J1201360-022	316,218	11.13	402,165	8.80	1,116,092	5.52
CRHE-MW0022-065.0-03212012	J1201360-021	332,100	11.13	405,929	8.80	1,179,725	5.52
CRHE-MW0026-035.0-03212012	J1201360-020	326,026	11.13	414,330	8.80	1,170,714	5.52
CRHE-MW0029-045.0-03212012	J1201360-019	314,676	11.13	399,293	8.80	1,157,084	5.52
CRHE-IW0014I-040.0-03212012	J1201360-018	324,993	11.13	393,830	8.80	1,133,953	5.52
CRHE-MW0024-010.0-03212012	J1201360-023	318,409	11.13	384,678	8.80	1,105,383	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 11:53

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-03.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200334-2
Analysis Lot: JWG1200334

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	317,277	11.13	383,361	8.80	1,079,939	5.51
	Upper Limit ==>	634,554	11.63	766,722	9.30	2,159,878	6.01
	Lower Limit ==>	158,639	10.63	191,681	8.30	539,970	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200333-3	309,433	11.13	402,331	8.80	1,130,474	5.51
Method Blank	JWG1200333-4	316,138	11.13	389,420	8.80	1,095,457	5.51
CRHE-IW0014I-040.0-03212012RI	J1201360-018	316,659	11.13	370,802	8.80	1,091,211	5.51
CRHE-MW0022-065.0-03212012R	J1201360-021	315,576	11.13	390,002	8.80	1,108,138	5.51
CRHE-MW0029-045.0-03212012D	J1201360-019	301,400	11.13	375,955	8.80	1,085,571	5.51
CRHE-MW0026-035.0-03212012D	J1201360-020	304,045	11.12	375,196	8.80	1,067,834	5.51
CRHE-MW0027-045.0-03212012D	J1201360-022	304,830	11.12	381,443	8.80	1,056,074	5.51
CHRE-MW0036-010.0-03202012	J1201360-030	307,096	11.13	380,864	8.80	1,120,196	5.51
CRHE-MW0025-030.0-03212012	J1201360-024	305,472	11.13	384,814	8.80	1,106,582	5.51
CRHE-MW0025-030.0-03212012D	J1201360-024	313,276	11.13	402,002	8.80	1,159,827	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.8	20.0	99	77-118
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	70-122
1,1,2,2-Tetrachloroethane	20.3	20.0	102	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	20.5	20.0	103	79-117
1,1-Dichloroethene	23.0	20.0	115	72-128
1,2,3-Trichlorobenzene	20.7	20.0	104	62-136
1,2,4-Trichlorobenzene	19.2	20.0	96	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.5	20.0	82	60-122
1,2-Dibromoethane (EDB)	18.7	20.0	93	76-118
1,2-Dichlorobenzene	20.5	20.0	103	81-115
1,2-Dichloroethane (EDC)	19.9	20.0	100	70-117
1,2-Dichloropropane	21.6	20.0	108	79-117
1,3-Dichlorobenzene	21.5	20.0	107	82-116
1,4-Dichlorobenzene	20.9	20.0	105	82-115
2-Butanone (MEK)	102	100	102	62-138
2-Hexanone	93.2	100	93	74-127
4-Methyl-2-pentanone (MIBK)	96.1	100	96	77-120
Acetone	88.3	100	88	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.6	20.0	98	78-118
Bromodichloromethane	20.2	20.0	101	75-118
Bromoform	19.2	20.0	96	63-121
Bromomethane	19.1	20.0	95	31-153
Carbon Disulfide	119	100	119	72-128
Carbon Tetrachloride	18.3	20.0	91	67-124
Chlorobenzene	20.7	20.0	103	83-118
Chloroethane	21.5	20.0	107	68-132
Chloroform	19.6	20.0	98	77-116
Chloromethane	24.8	20.0	124	60-128
cis-1,2-Dichloroethene	21.5	20.0	108	78-117
cis-1,3-Dichloropropene	20.9	20.0	105	80-119
Cyclohexane	20.3	20.0	102	75-124
Dibromochloromethane	19.4	20.0	97	74-121
Dichlorodifluoromethane	22.1	20.0	111	49-132
Ethylbenzene	21.8	20.0	109	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

	Lab Control Sample JWG1200321-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.0	20.0	120 *	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	19.4	20.0	97	50-137
Methyl tert-Butyl Ether	20.0	20.0	100	73-118
Methylene Chloride	20.5	20.0	103	75-123
o-Xylene	21.3	20.0	106	80-119
Styrene	20.9	20.0	105	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	20.9	20.0	104	75-121
trans-1,3-Dichloropropene	19.7	20.0	98	76-118
Trichloroethene (TCE)	20.6	20.0	103	78-122
Trichlorofluoromethane	20.3	20.0	101	58-134
Trichlorotrifluoroethane	21.4	20.0	107	77-128
Vinyl Chloride	21.4	20.0	107	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	19.4	20.0	97	77-118
1,1,1-Trichloroethane (TCA)	20.2	20.0	101	70-122
1,1,2,2-Tetrachloroethane	21.1	20.0	106	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	21.2	20.0	106	79-117
1,1-Dichloroethene	23.6	20.0	118	72-128
1,2,3-Trichlorobenzene	19.5	20.0	98	62-136
1,2,4-Trichlorobenzene	18.7	20.0	93	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.7	20.0	83	60-122
1,2-Dibromoethane (EDB)	19.1	20.0	96	76-118
1,2-Dichlorobenzene	20.3	20.0	101	81-115
1,2-Dichloroethane (EDC)	19.8	20.0	99	70-117
1,2-Dichloropropane	21.5	20.0	108	79-117
1,3-Dichlorobenzene	21.0	20.0	105	82-116
1,4-Dichlorobenzene	21.0	20.0	105	82-115
2-Butanone (MEK)	99.8	100	100	62-138
2-Hexanone	94.3	100	94	74-127
4-Methyl-2-pentanone (MIBK)	95.0	100	95	77-120
Acetone	86.2	100	86	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.4	20.0	97	78-118
Bromodichloromethane	20.9	20.0	104	75-118
Bromoform	20.2	20.0	101	63-121
Bromomethane	19.4	20.0	97	31-153
Carbon Disulfide	121	100	121	72-128
Carbon Tetrachloride	19.3	20.0	96	67-124
Chlorobenzene	20.3	20.0	101	83-118
Chloroethane	22.3	20.0	112	68-132
Chloroform	20.5	20.0	102	77-116
Chloromethane	25.2	20.0	126	60-128
cis-1,2-Dichloroethene	21.7	20.0	108	78-117
cis-1,3-Dichloropropene	20.7	20.0	104	80-119
Cyclohexane	20.8	20.0	104	75-124
Dibromochloromethane	19.5	20.0	97	74-121
Dichlorodifluoromethane	22.3	20.0	111	49-132
Ethylbenzene	21.1	20.0	105	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	23.8	20.0	119	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	18.4	20.0	92	50-137
Methyl tert-Butyl Ether	20.8	20.0	104	73-118
Methylene Chloride	21.2	20.0	106	75-123
o-Xylene	21.4	20.0	107	80-119
Styrene	21.2	20.0	106	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	21.2	20.0	106	75-121
trans-1,3-Dichloropropene	19.9	20.0	100	76-118
Trichloroethene (TCE)	20.8	20.0	104	78-122
Trichlorofluoromethane	21.2	20.0	106	58-134
Trichlorotrifluoroethane	22.4	20.0	112	77-128
Vinyl Chloride	22.0	20.0	110	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	77-118
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	70-122
1,1,2,2-Tetrachloroethane	19.6	20.0	98	66-135
1,1,2-Trichloroethane	19.4	20.0	97	75-122
1,1-Dichloroethane	20.4	20.0	102	79-117
1,1-Dichloroethene	22.4	20.0	112	72-128
1,2,3-Trichlorobenzene	19.2	20.0	96	62-136
1,2,4-Trichlorobenzene	17.9	20.0	89	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.1	20.0	81	60-122
1,2-Dibromoethane (EDB)	18.2	20.0	91	76-118
1,2-Dichlorobenzene	19.6	20.0	98	81-115
1,2-Dichloroethane (EDC)	20.0	20.0	100	70-117
1,2-Dichloropropane	21.1	20.0	105	79-117
1,3-Dichlorobenzene	20.9	20.0	105	82-116
1,4-Dichlorobenzene	20.4	20.0	102	82-115
2-Butanone (MEK)	98.5	100	99	62-138
2-Hexanone	91.0	100	91	74-127
4-Methyl-2-pentanone (MIBK)	92.1	100	92	77-120
Acetone	90.0	100	90	42-161
Benzene	20.5	20.0	102	80-117
Bromochloromethane	18.7	20.0	94	78-118
Bromodichloromethane	20.6	20.0	103	75-118
Bromoform	18.3	20.0	92	63-121
Bromomethane	17.8	20.0	89	31-153
Carbon Disulfide	114	100	114	72-128
Carbon Tetrachloride	17.7	20.0	88	67-124
Chlorobenzene	19.7	20.0	98	83-118
Chloroethane	19.9	20.0	100	68-132
Chloroform	19.7	20.0	98	77-116
Chloromethane	21.6	20.0	108	60-128
cis-1,2-Dichloroethene	20.9	20.0	104	78-117
cis-1,3-Dichloropropene	19.6	20.0	98	80-119
Cyclohexane	19.8	20.0	99	75-124
Dibromochloromethane	18.4	20.0	92	74-121
Dichlorodifluoromethane	19.8	20.0	99	49-132
Ethylbenzene	20.8	20.0	104	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	24.1	20.0	120 *	78-119
m,p-Xylenes	41.0	40.0	102	79-122
Methyl Acetate	19.1	20.0	95	50-137
Methyl tert-Butyl Ether	19.8	20.0	99	73-118
Methylene Chloride	20.0	20.0	100	75-123
o-Xylene	20.2	20.0	101	80-119
Styrene	19.9	20.0	99	80-121
Tetrachloroethene (PCE)	18.9	20.0	94	75-126
Toluene	20.0	20.0	100	52-152
trans-1,2-Dichloroethene	20.1	20.0	100	75-121
trans-1,3-Dichloropropene	19.3	20.0	96	76-118
Trichloroethene (TCE)	20.3	20.0	101	78-122
Trichlorofluoromethane	18.9	20.0	95	58-134
Trichlorotrifluoroethane	20.0	20.0	100	77-128
Vinyl Chloride	19.6	20.0	98	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.1	20.0	90	71-124
1,1,1-Trichloroethane (TCA)	17.4	20.0	87	72-131
1,1,2,2-Tetrachloroethane	17.4	20.0	87	51-136
1,1,2-Trichloroethane	18.4	20.0	92	74-113
1,1-Dichloroethane	18.3	20.0	92	74-124
1,1-Dichloroethene	16.0	20.0	80	67-128
1,2,3-Trichlorobenzene	18.9	20.0	94	64-129
1,2,4-Trichlorobenzene	18.7	20.0	93	61-135
1,2-Dibromo-3-chloropropane (DBCP)	17.4	20.0	87	54-129
1,2-Dibromoethane (EDB)	18.2	20.0	91	74-114
1,2-Dichlorobenzene	18.6	20.0	93	74-111
1,2-Dichloroethane (EDC)	17.7	20.0	88	74-120
1,2-Dichloropropane	18.3	20.0	91	77-119
1,3-Dichlorobenzene	18.5	20.0	93	74-114
1,4-Dichlorobenzene	18.7	20.0	93	72-112
2-Butanone (MEK)	87.5	100	87	55-136
2-Hexanone	88.0	100	88	60-127
4-Methyl-2-pentanone (MIBK)	90.1	100	90	64-122
Acetone	83.4	100	83	30-164
Benzene	18.2	20.0	91	76-123
Bromochloromethane	19.0	20.0	95	75-124
Bromodichloromethane	17.1	20.0	85	74-124
Bromoform	16.8	20.0	84	58-126
Bromomethane	18.5	20.0	92	25-175
Carbon Disulfide	110	100	110	62-134
Carbon Tetrachloride	16.0	20.0	80	68-134
Chlorobenzene	19.0	20.0	95	74-116
Chloroethane	17.5	20.0	88	64-131
Chloroform	17.1	20.0	86	75-120
Chloromethane	16.6	20.0	83	59-138
cis-1,2-Dichloroethene	18.4	20.0	92	74-122
cis-1,3-Dichloropropene	18.5	20.0	93	75-115
Cyclohexane	19.3	20.0	96	70-127
Dibromochloromethane	16.7	20.0	83	67-123
Dichlorodifluoromethane	17.1	20.0	86	51-150
Ethylbenzene	18.9	20.0	95	71-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	20.9	20.0	105	67-124
m,p-Xylenes	38.0	40.0	95	71-122
Methyl Acetate	16.6	20.0	83	25-160
Methyl tert-Butyl Ether	18.1	20.0	90	72-121
Methylene Chloride	16.6	20.0	83	60-140
o-Xylene	18.3	20.0	92	71-120
Styrene	19.1	20.0	95	70-122
Tetrachloroethene (PCE)	18.9	20.0	95	69-124
Toluene	18.7	20.0	93	72-118
trans-1,2-Dichloroethene	17.6	20.0	88	71-127
trans-1,3-Dichloropropene	17.6	20.0	88	73-115
Trichloroethene (TCE)	18.4	20.0	92	70-129
Trichlorofluoromethane	17.4	20.0	87	67-129
Trichlorotrifluoroethane	17.7	20.0	89	66-131
Vinyl Chloride	18.9	20.0	95	62-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 13:10

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-06.D

Level: Low
Extraction Lot: JWG1200321

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/12	11:42
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 11:20

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-06.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/12	09:51
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 13:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-07.D

Level: Low
Extraction Lot: JWG1200333

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/12	12:25
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/22/2012
Sample Matrix:	Soil	**Date Analyzed:**	03/22/2012
		Time Analyzed:	11:28

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS52
Lab Code:	JWG1200305-2	**File ID:**	J:\MS52\DATA\MS52-120322\0322-05.D
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200305

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/12	10:14
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 11:42

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/12	13:10
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 09:51

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/12	11:20
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 12:25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-04.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200333

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/12	13:53
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012
Time Analyzed: 10:14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Instrument ID: MS52
File ID: J:\MS52\DATA\MS52-120322\0322-03.D

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200305

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/12	11:28
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:17

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-01.D
Instrument ID: MS52
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200306

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.1	3056	PASS
75	95	30	60	44.7	9053	PASS
95	95	100	100	100.0	20275	PASS
96	95	5	9	6.8	1378	PASS
173	174	0	2	0.4	78	PASS
174	95	50	120	93.5	18957	PASS
175	174	5	9	7.2	1370	PASS
176	174	95	101	98.9	18742	PASS
177	176	5	9	6.5	1226	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200306-2	J:\MS52\DATA\MS52-120322\0322-02.D	03/22/2012	09:45	
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/2012	10:14	
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/2012	11:28	
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/2012	18:20	
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/2012	18:48	
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/2012	19:17	
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/2012	19:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 10:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200322

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.2	25176	PASS
75	95	30	60	33.7	55912	PASS
95	95	100	100	100.0	166080	PASS
96	95	5	9	6.4	10595	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.7	150592	PASS
175	174	5	9	7.5	11247	PASS
176	174	95	101	95.4	143616	PASS
177	176	5	9	6.0	8649	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200322-2	J:\MS53\DATA\MS53-120330\0330-02.D	03/30/2012	11:12	
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/2012	11:42	
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/2012	13:10	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/2012	13:40	
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/2012	14:10	
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/2012	14:40	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/2012	15:09	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/2012	15:39	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/2012	16:09	
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/2012	16:39	
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/2012	17:09	
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/2012	17:39	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/2012	18:09	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/2012	18:39	
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/2012	19:09	
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/2012	19:39	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/2012	20:09	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/2012	20:39	
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/2012	21:08	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/2012	21:38	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 08:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200326

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	37064	PASS
75	95	30	60	35.7	80421	PASS
95	95	100	100	100.0	225429	PASS
96	95	5	9	6.5	14647	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.9	180139	PASS
175	174	5	9	7.7	13885	PASS
176	174	95	101	96.2	173248	PASS
177	176	5	9	6.3	10928	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200326-2	J:\MS53\DATA\MS53-120402\0402-02.D	04/02/2012	09:21	
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/2012	09:51	
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/2012	11:20	
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/2012	11:50	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/2012	12:20	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/2012	12:49	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/2012	13:20	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/2012	13:50	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/2012	14:20	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/2012	14:50	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/2012	15:19	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/2012	15:49	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/2012	16:19	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/2012	16:49	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/2012	17:19	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/2012	17:49	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/2012	18:19	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/2012	18:49	
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/2012	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 10:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200334

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.8	34616	PASS
75	95	30	60	36.5	75304	PASS
95	95	100	100	100.0	206165	PASS
96	95	5	9	6.5	13426	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	74.0	152600	PASS
175	174	5	9	8.1	12319	PASS
176	174	95	101	95.9	146363	PASS
177	176	5	9	6.7	9745	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200334-2	J:\MS53\DATA\MS53-120403\0403-03.D	04/03/2012	11:53	
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/2012	12:25	
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/2012	13:53	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/2012	14:23	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/2012	14:52	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/2012	15:22	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/2012	15:51	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/2012	16:21	
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/2012	16:50	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/2012	17:20	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/2012	18:18	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS52\DATA\MS52-120227\0227-04.D	F	J:\MS52\DATA\MS52-120227\0227-09.D
B	J:\MS52\DATA\MS52-120227\0227-05.D	G	J:\MS52\DATA\MS52-120227\0227-10.D
C	J:\MS52\DATA\MS52-120227\0227-06.D	H	J:\MS52\DATA\MS52-120227\0227-11.D
D	J:\MS52\DATA\MS52-120227\0227-07.D	I	J:\MS52\DATA\MS52-120227\0227-12.D
E	J:\MS52\DATA\MS52-120227\0227-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	1.06	B	2.0	1.07	C	5.0	1.09	D	10	1.16	E	20	1.24
	F	50	1.29	G	100	1.41	H	150	1.24	I	200	1.35			
1,1,1-Trichloroethane (TCA)	A	1.0	0.672	B	2.0	0.693	C	5.0	0.706	D	10	0.709	E	20	0.843
	F	50	0.863	G	100	0.927	H	150	0.774	I	200	0.890			
1,1,2,2-Tetrachloroethane	A	1.0	0.996	B	2.0	0.870	C	5.0	0.993	D	10	0.943	E	20	0.984
	F	50	1.03	G	100	1.16	H	150	1.08	I	200	1.03			
1,1,2-Trichloroethane	A	1.0	0.650	B	2.0	0.651	C	5.0	0.608	D	10	0.664	E	20	0.665
	F	50	0.704	G	100	0.758	H	150	0.685	I	200	0.694			
1,1-Dichloroethane	A	1.0	0.636	B	2.0	0.665	C	5.0	0.745	D	10	0.712	E	20	0.795
	F	50	0.787	G	100	0.830	H	150	0.727	I	200	0.812			
1,1-Dichloroethene	A	1.0	0.518	B	2.0	0.546	C	5.0	0.598	D	10	0.564	E	20	0.676
	F	50	0.699	G	100	0.729	H	150	0.616	I	200	0.713			
1,2,3-Trichlorobenzene							C	5.0	1.51	D	10	1.53	E	20	1.65
	F	50	1.68	G	100	1.88	H	150	1.79	I	200	1.79			
1,2,4-Trichlorobenzene							C	5.0	1.78	D	10	1.65	E	20	1.85
	F	50	1.95	G	100	2.14	H	150	2.02	I	200	2.06			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.201	D	10	0.207	E	20	0.215
	F	50	0.224	G	100	0.265	H	150	0.268	I	200	0.246			
1,2-Dibromoethane (EDB)	A	1.0	0.828	B	2.0	0.746	C	5.0	0.831	D	10	0.838	E	20	0.879
	F	50	0.910	G	100	1.02	H	150	0.922	I	200	0.926			
1,2-Dichlorobenzene	A	1.0	2.20	B	2.0	2.23	C	5.0	2.29	D	10	2.27	E	20	2.42
	F	50	2.48	G	100	2.75	H	150	2.54	I	200	2.57			
1,2-Dichloroethane (EDC)	A	1.0	0.451	B	2.0	0.543	C	5.0	0.534	D	10	0.526	E	20	0.550
	F	50	0.559	G	100	0.594	H	150	0.529	I	200	0.541			
1,2-Dichloroethane-d4	A	50	0.259	B	50	0.263	C	50	0.260	D	50	0.257	E	50	0.250
	F	50	0.246	G	50	0.250	H	50	0.238	I	50	0.232			
1,2-Dichloropropane	A	1.0	0.317	B	2.0	0.359	C	5.0	0.385	D	10	0.389	E	20	0.419
	F	50	0.414	G	100	0.449	H	150	0.398	I	200	0.432			
1,3-Dichlorobenzene	A	1.0	2.49	B	2.0	2.45	C	5.0	2.50	D	10	2.50	E	20	2.68
	F	50	2.78	G	100	2.98	H	150	2.75	I	200	2.89			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	2.55	B	2.0	2.49	C	5.0	2.54	D	10	2.51	E	20	2.68
	F	50	2.71	G	100	2.93	H	150	2.66	I	200	2.76			
2-Butanone (MEK)	A	5.0	0.110	B	10	0.121	C	25	0.134	D	50	0.129	E	100	0.122
	F	250	0.126	G	500	0.137	H	750	0.133	I	1000	0.120			
2-Hexanone	A	5.0	0.483	B	10	0.458	C	25	0.508	D	50	0.502	E	100	0.493
	F	250	0.519	G	500	0.587	H	750	0.567	I	1000	0.513			
4-Bromofluorobenzene	A	50	0.871	B	50	0.864	C	50	0.864	D	50	0.885	E	50	0.872
	F	50	0.901	G	50	0.940	H	50	1.01	I	50	1.05			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.687	B	10	0.676	C	25	0.718	D	50	0.734	E	100	0.712
	F	250	0.727	G	500	0.822	H	750	0.779	I	1000	0.708			
Acetone	A	5.0	0.109	B	10	0.114	C	25	0.0910	D	50	0.0862	E	100	0.0760
	F	250	0.0764	G	500	0.0848	H	750	0.0801	I	1000	0.0729			
Benzene	A	1.0	1.64	B	2.0	1.61	C	5.0	1.72	D	10	1.63	E	20	1.81
	F	50	1.84	G	100	1.93	H	150	1.66	I	200	1.84			
Bromochloromethane	A	1.0	0.229	B	2.0	0.251	C	5.0	0.275	D	10	0.266	E	20	0.289
	F	50	0.281	G	100	0.280	H	150	0.254	I	200	0.262			
Bromodichloromethane	A	1.0	0.550	B	2.0	0.529	C	5.0	0.562	D	10	0.550	E	20	0.610
	F	50	0.623	G	100	0.668	H	150	0.599	I	200	0.632			
Bromoform	A	1.0	0.578	B	2.0	0.610	C	5.0	0.604	D	10	0.656	E	20	0.670
	F	50	0.738	G	100	0.832	H	150	0.780	I	200	0.769			
Bromomethane	A	1.0	0.210	B	2.0	0.245	C	5.0	0.239	D	10	0.240	E	20	0.289
	F	50	0.312	G	100	0.316	H	150	0.267	I	200	0.285			
Carbon Disulfide	A	5.0	0.950	B	10	0.925	C	25	0.995	D	50	0.961	E	100	1.11
	F	250	1.12	G	500	1.16	H	750	0.967	I	1000	1.12			
Carbon Tetrachloride	A	1.0	0.499	B	2.0	0.583	C	5.0	0.602	D	10	0.603	E	20	0.705
	F	50	0.755	G	100	0.804	H	150	0.676	I	200	0.775			
Chlorobenzene	A	1.0	2.91	B	2.0	3.04	C	5.0	3.14	D	10	3.18	E	20	3.41
	F	50	3.49	G	100	3.79	H	150	3.26	I	200	3.61			
Chloroethane	A	1.0	0.284	B	2.0	0.292	C	5.0	0.287	D	10	0.265	E	20	0.321
	F	50	0.322	G	100	0.335	H	150	0.285	I	200	0.325			
Chloroform	A	1.0	0.865	B	2.0	0.772	C	5.0	0.799	D	10	0.779	E	20	0.844
	F	50	0.850	G	100	0.904	H	150	0.787	I	200	0.854			
Chloromethane	A	1.0	0.480	B	2.0	0.498	C	5.0	0.522	D	10	0.490	E	20	0.602
	F	50	0.595	G	100	0.630	H	150	0.530	I	200	0.616			
cis-1,2-Dichloroethene	A	1.0	0.521	B	2.0	0.547	C	5.0	0.560	D	10	0.524	E	20	0.600
	F	50	0.608	G	100	0.638	H	150	0.550	I	200	0.612			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	1.59	B	2.0	1.51	C	5.0	1.57	D	10	1.55	E	20	1.74
	F	50	1.82	G	100	1.96	H	150	1.77	I	200	1.89			
Cyclohexane	A	1.0	0.520	B	2.0	0.584	C	5.0	0.628	D	10	0.623	E	20	0.741
	F	50	0.762	G	100	0.817	H	150	0.690	I	200	0.796			
Dibromochloromethane	A	1.0	0.936	B	2.0	0.974	C	5.0	1.04	D	10	1.01	E	20	1.10
	F	50	1.15	G	100	1.28	H	150	1.15	I	200	1.20			
Dibromofluoromethane	A	50	0.243	B	50	0.248	C	50	0.245	D	50	0.244	E	50	0.243
	F	50	0.240	G	50	0.232	H	50	0.237	I	50	0.232			
Dichlorodifluoromethane	A	1.0	0.485	B	2.0	0.502	C	5.0	0.513	D	10	0.488	E	20	0.600
	F	50	0.618	G	100	0.650	H	150	0.531	I	200	0.602			
Ethylbenzene	A	1.0	4.98	B	2.0	4.98	C	5.0	5.31	D	10	5.29	E	20	6.02
	F	50	6.24	G	100	6.74	H	150	5.77	I	200	6.43			
Isopropylbenzene	A	1.0	3.99	B	2.0	4.07	C	5.0	4.52	D	10	4.56	E	20	5.01
	F	50	5.26	G	100	5.79	H	150	5.23	I	200	5.74			
m,p-Xylenes	A	2.0	3.98	B	4.0	3.87	C	10	4.20	D	20	4.25	E	40	4.83
	F	100	4.88	G	200	5.27	H	300	4.48	I	400	4.97			
Methyl Acetate	A	1.0	0.534	B	2.0	0.515	C	5.0	0.528	D	10	0.519	E	20	0.510
	F	50	0.481	G	100	0.537	H	150	0.506	I	200	0.458			
Methyl tert-Butyl Ether	A	1.0	1.04	B	2.0	1.05	C	5.0	1.05	D	10	1.01	E	20	1.05
	F	50	1.10	G	100	1.17	H	150	1.11	I	200	1.10			
Methylene Chloride	A	1.0	0.840	B	2.0	0.616	C	5.0	0.514	D	10	0.453	E	20	0.512
	F	50	0.493	G	100	0.481	H	150	0.436	I	200	0.449			
o-Xylene	A	1.0	4.45	B	2.0	4.11	C	5.0	4.44	D	10	4.38	E	20	4.91
	F	50	5.04	G	100	5.37	H	150	4.67	I	200	5.10			
Styrene	A	1.0	2.66	B	2.0	3.13	C	5.0	3.22	D	10	3.25	E	20	3.70
	F	50	3.83	G	100	4.21	H	150	3.67	I	200	3.99			
Tetrachloroethene (PCE)	A	1.0	0.932	B	2.0	0.963	C	5.0	1.08	D	10	1.05	E	20	1.21
	F	50	1.23	G	100	1.32	H	150	1.11	I	200	1.27			
Toluene	A	1.0	4.59	B	2.0	4.55	C	5.0	4.69	D	10	4.68	E	20	5.27
	F	50	5.33	G	100	5.73	H	150	4.91	I	200	5.46			
Toluene-d8	A	50	2.51	B	50	2.46	C	50	2.44	D	50	2.46	E	50	2.50
	F	50	2.47	G	50	2.52	H	50	2.45	I	50	2.52			
trans-1,2-Dichloroethene	A	1.0	0.580	B	2.0	0.560	C	5.0	0.577	D	10	0.557	E	20	0.650
	F	50	0.639	G	100	0.679	H	150	0.577	I	200	0.661			
trans-1,3-Dichloropropene	A	1.0	1.40	B	2.0	1.47	C	5.0	1.44	D	10	1.45	E	20	1.54
	F	50	1.64	G	100	1.85	H	150	1.67	I	200	1.74			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.417	B	2.0	0.448	C	5.0	0.503	D	10	0.491	E	20	0.550
	F	50	0.557	G	100	0.591	H	150	0.512	I	200	0.578			
Trichlorofluoromethane	A	1.0	0.748	B	2.0	0.708	C	5.0	0.742	D	10	0.720	E	20	0.879
	F	50	0.881	G	100	0.938	H	150	0.779	I	200	0.893			
Trichlorotrifluoroethane	A	1.0	0.330	B	2.0	0.332	C	5.0	0.376	D	10	0.372	E	20	0.452
	F	50	0.462	G	100	0.471	H	150	0.393	I	200	0.453			
Vinyl Chloride	A	1.0	0.369	B	2.0	0.439	C	5.0	0.448	D	10	0.423	E	20	0.496
	F	50	0.465	G	100	0.461	H	150	0.365	I	200	0.444			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	10.3		≤ 15	1.21		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.3		≤ 15	0.786		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	8.1		≤ 15	1.01		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	6.2		≤ 15	0.675		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.0		≤ 15	0.745		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	12.4		≤ 15	0.629		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	8.1		≤ 15	1.69		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	9.0		≤ 15	1.92		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	11.8		≤ 15	0.232		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	8.9		≤ 15	0.878		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	2.42		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	7.1		≤ 15	0.536		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	4.2		≤ 15	0.251		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	10.1		≤ 15	0.396		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	2.67		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	5.3		≤ 15	2.65		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	6.7		≤ 15	0.126		0.01
2-Hexanone	MS	AverageRF	% RSD	7.8		≤ 15	0.514		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.6		≤ 15	0.918		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.3		≤ 15	0.729		0.01
Acetone	MS	Linear	R2	0.994		≥ 0.99	0.0878		0.01
Benzene	MS	AverageRF	% RSD	6.7		≤ 15	1.74		0.01
Bromochloromethane	MS	AverageRF	% RSD	7.0		≤ 15	0.265		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.8		≤ 15	0.592		0.01
† Bromoform	MS	AverageRF	% RSD	12.9		≤ 15	0.693		0.1
Bromomethane	MS	AverageRF	% RSD	13.5		≤ 15	0.267		0.01
Carbon Disulfide	MS	AverageRF	% RSD	8.9		≤ 15	1.03		0.01
Carbon Tetrachloride	MS	Linear	R2	0.993		≥ 0.99	0.667		0.01
† Chlorobenzene	MS	AverageRF	% RSD	8.6		≤ 15	3.32		0.3
Chloroethane	MS	AverageRF	% RSD	8.1		≤ 15	0.302		0.01
‡ Chloroform	MS	AverageRF	% RSD	5.5		≤ 15	0.828		0.01
† Chloromethane	MS	AverageRF	% RSD	10.7		≤ 15	0.551		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	7.3		≤ 15	0.573		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	9.5		≤ 15	1.71		0.01
Cyclohexane	MS	AverageRF	% RSD	14.9		≤ 15	0.684		0.01
Dibromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	1.09		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.3		≤ 15	0.241		
Dichlorodifluoromethane	MS	AverageRF	% RSD	11.4		≤ 15	0.554		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	11.2		≤ 15	5.75		0.01
Isopropylbenzene	MS	AverageRF	% RSD	13.5		≤ 15	4.91		0.01
m,p-Xylenes	MS	AverageRF	% RSD	10.7		≤ 15	4.53		0.01
Methyl Acetate	MS	AverageRF	% RSD	5.1		≤ 15	0.510		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	4.6		≤ 15	1.08		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria	RRF Evaluation: Average RRF	Q	Minimum RRF
Methylene Chloride	MS	Linear	R2	0.998		≥ 0.99	0.533		0.01
o-Xylene	MS	AverageRF	% RSD	8.7		≤ 15	4.72		0.01
Styrene	MS	AverageRF	% RSD	13.9		≤ 15	3.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	12.1		≤ 15	1.13		0.01
‡ Toluene	MS	AverageRF	% RSD	8.6		≤ 15	5.02		0.01
Toluene-d8	SURR	AverageRF	% RSD	1.2		≤ 15	2.48		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	7.8		≤ 15	0.609		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	9.7		≤ 15	1.58		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.516		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	10.8		≤ 15	0.810		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.9		≤ 15	0.405		0.01
‡ Vinyl Chloride	MS	AverageRF	% RSD	10.0		≤ 15	0.434		0.01

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

File ID: J:\MS52\DATA\MS52-120227\0227-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	1.21	1.25	3	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.786	0.827	5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	1.01	1.01	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.675	0.713	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.745	0.819	10	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.629	0.681	8	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	1.69	1.66	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	1.92	1.85	-4	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.232	0.212	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.878	0.906	3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	2.42	2.47	2	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.536	0.540	1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.396	0.425	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	20	2.67	2.72	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	2.65	2.73	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.126	0.122	-3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.514	0.515	0	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.729	0.730	0	NA	± 30 %	AverageRF
Acetone	100	93	0.0878	0.0775	NA	-7	± 30 %	Linear
Benzene	20	21	1.74	1.85	6	NA	± 30 %	AverageRF
Bromochloromethane	20	22	0.265	0.292	10	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.592	0.612	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.693	0.665	-4	NA	± 30 %	AverageRF
Bromomethane	20	19	0.267	0.258	-3	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	1.03	1.12	8	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.667	0.697	NA	-3	± 30 %	Linear
Chlorobenzene	20	21	3.32	3.51	6	NA	± 30 %	AverageRF
Chloroethane	20	21	0.302	0.321	7	NA	± 30 %	AverageRF
Chloroform	20	20	0.828	0.846	2	NA	± 30 %	AverageRF
Chloromethane	20	21	0.551	0.569	3	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.573	0.605	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	1.71	1.79	5	NA	± 30 %	AverageRF
Cyclohexane	20	22	0.684	0.743	9	NA	± 30 %	AverageRF
Dibromochloromethane	20	20	1.09	1.10	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.554	0.589	6	NA	± 30 %	AverageRF
Ethylbenzene	20	21	5.75	6.10	6	NA	± 30 %	AverageRF
Isopropylbenzene	20	21	4.91	5.23	7	NA	± 30 %	AverageRF
m,p-Xylenes	40	43	4.53	4.90	8	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.510	0.512	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	1.08	1.10	2	NA	± 30 %	AverageRF
Methylene Chloride	20	26	0.533	0.618	NA	29	± 30 %	Linear

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	21	4.72	4.99	6	NA	± 30 %	AverageRF
Styrene	20	22	3.52	3.83	9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	21	1.13	1.21	7	NA	± 30 %	AverageRF
Toluene	20	21	5.02	5.34	6	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.609	0.653	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	1.58	1.57	0	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.516	0.579	12	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.810	0.857	6	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.405	0.435	7	NA	± 30 %	AverageRF
Vinyl Chloride	20	23	0.434	0.493	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Level ID	File ID
A	J:\MS53\DATA\MS53-120307\0307-03.D
B	J:\MS53\DATA\MS53-120307\0307-04.D
C	J:\MS53\DATA\MS53-120307\0307-05.D
D	J:\MS53\DATA\MS53-120307\0307-06.D
E	J:\MS53\DATA\MS53-120307\0307-08.D
F	J:\MS53\DATA\MS53-120307\0307-09.D
G	J:\MS53\DATA\MS53-120307\0307-10.D
H	J:\MS53\DATA\MS53-120307\0307-11.D
I	J:\MS53\DATA\MS53-120307\0307-15.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	0.493	B	2.0	0.424	C	5.0	0.487	D	10	0.500	E	50	0.524
	F	100	0.512	G	150	0.473	H	200	0.463	I	20	0.523			
1,1,1-Trichloroethane (TCA)	A	1.0	0.186	B	2.0	0.173	C	5.0	0.216	D	10	0.207	E	50	0.253
	F	100	0.246	G	150	0.241	H	200	0.241	I	20	0.227			
1,1,2,2-Tetrachloroethane	A	1.0	0.721	B	2.0	0.736	C	5.0	0.779	D	10	0.812	E	50	0.777
	F	100	0.734	G	150	0.659	H	200	0.569	I	20	0.763			
1,1,2-Trichloroethane	A	1.0	0.374	B	2.0	0.341	C	5.0	0.369	D	10	0.374	E	50	0.363
	F	100	0.380	G	150	0.348	H	200	0.339	I	20	0.381			
1,1-Dichloroethane	A	1.0	0.341	B	2.0	0.323	C	5.0	0.390	D	10	0.382	E	50	0.427
	F	100	0.421	G	150	0.422	H	200	0.411	I	20	0.406			
1,1-Dichloroethene	A	1.0	0.218	B	2.0	0.195	C	5.0	0.247	D	10	0.227	E	50	0.266
	F	100	0.240	G	150	0.219	H	200	0.206	I	20	0.257			
1,2,3-Trichlorobenzene										D	10	0.342	E	50	0.343
	F	100	0.373	G	150	0.354	H	200	0.354	I	20	0.337			
1,2,4-Trichlorobenzene										D	10	0.485	E	50	0.533
	F	100	0.564	G	150	0.552	H	200	0.552	I	20	0.505			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.0716	D	10	0.0723	E	50	0.0750
	F	100	0.0823	G	150	0.0817	H	200	0.0823	I	20	0.0665			
1,2-Dibromoethane (EDB)	A	1.0	0.375	B	2.0	0.367	C	5.0	0.413	D	10	0.423	E	50	0.415
	F	100	0.425	G	150	0.406	H	200	0.382	I	20	0.421			
1,2-Dichlorobenzene	A	1.0	1.10	B	2.0	0.997	C	5.0	1.15	D	10	1.09	E	50	1.12
	F	100	1.12	G	150	1.03	H	200	1.01	I	20	1.16			
1,2-Dichloroethane (EDC)	A	1.0	0.136	B	2.0	0.117	C	5.0	0.138	D	10	0.137	E	50	0.147
	F	100	0.145	G	150	0.145	H	200	0.143	I	20	0.141			
1,2-Dichloroethane-d4	A	50	0.147	B	50	0.149	C	50	0.145	D	50	0.148	E	50	0.146
	F	50	0.144	G	50	0.146	H	50	0.141	I	50	0.141			
1,2-Dichloropropane	A	1.0	0.207	B	2.0	0.201	C	5.0	0.223	D	10	0.224	E	50	0.245
	F	100	0.240	G	150	0.233	H	200	0.230	I	20	0.234			
1,3-Dichlorobenzene	A	1.0	1.27	B	2.0	1.14	C	5.0	1.33	D	10	1.26	E	50	1.26
	F	100	1.16	G	150	1.06	H	200	0.987	I	20	1.31			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	1.21	B	2.0	1.11	C	5.0	1.28	D	10	1.25	E	50	1.31
	F	100	1.24	G	150	1.18	H	200	1.09	I	20	1.36			
2-Butanone (MEK)	A	5.0	0.00960	B	10	0.0116	C	25	0.0117	D	50	0.0121	E	250	0.0134
	F	500	0.0126	G	750	0.0128	H	1000	0.0131	I	100	0.0122			
2-Hexanone				B	10	0.293	C	25	0.288	D	50	0.283	E	250	0.263
	F	500	0.273	G	750	0.250	H	1000	0.238	I	100	0.278			
4-Bromofluorobenzene	A	50	1.02	B	50	0.970	C	50	0.993	D	50	0.952	E	50	0.907
	F	50	0.857	G	50	0.815	H	50	0.793	I	50	0.954			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.422	B	10	0.421	C	25	0.431	D	50	0.435	E	250	0.405
	F	500	0.401	G	750	0.380	H	1000	0.364	I	100	0.428			
Acetone	A	5.0	0.0341	B	10	0.0312	C	25	0.0313	D	50	0.0309	E	250	0.0284
	F	500	0.0286	G	750	0.0280	H	1000	0.0265	I	100	0.0274			
Benzene	A	1.0	0.820	B	2.0	0.794	C	5.0	0.904	D	10	0.885	E	50	0.990
	F	100	0.952	G	150	0.913	H	200	0.875	I	20	0.955			
Bromochloromethane	A	1.0	0.114	B	2.0	0.111	C	5.0	0.133	D	10	0.136	E	50	0.146
	F	100	0.145	G	150	0.148	H	200	0.145	I	20	0.142			
Bromodichloromethane	A	1.0	0.207	B	2.0	0.202	C	5.0	0.227	D	10	0.231	E	50	0.252
	F	100	0.246	G	150	0.244	H	200	0.233	I	20	0.241			
Bromoform	A	1.0	0.172	B	2.0	0.166	C	5.0	0.209	D	10	0.224	E	50	0.249
	F	100	0.246	G	150	0.236	H	200	0.224	I	20	0.232			
Bromomethane	A	1.0	0.172	B	2.0	0.160	C	5.0	0.182	D	10	0.184	E	50	0.217
	F	100	0.173	G	150	0.157	H	200	0.147	I	20	0.190			
Carbon Disulfide	A	5.0	0.669	B	10	0.622	C	25	0.755	D	50	0.708	E	250	0.796
	F	500	0.685	G	750	0.613	H	1000	0.560	I	100	0.787			
Carbon Tetrachloride	A	1.0	0.132	B	2.0	0.133	C	5.0	0.168	D	10	0.158	E	50	0.198
	F	100	0.195	G	150	0.190	H	200	0.193	I	20	0.178			
Chlorobenzene	A	1.0	1.44	B	2.0	1.39	C	5.0	1.57	D	10	1.54	E	50	1.56
	F	100	1.52	G	150	1.37	H	200	1.29	I	20	1.64			
Chloroethane	A	1.0	0.154	B	2.0	0.143	C	5.0	0.161	D	10	0.167	E	50	0.188
	F	100	0.162	G	150	0.150	H	200	0.143	I	20	0.178			
Chloroform	A	1.0	0.323	B	2.0	0.293	C	5.0	0.343	D	10	0.328	E	50	0.370
	F	100	0.368	G	150	0.370	H	200	0.357	I	20	0.350			
Chloromethane	A	1.0	0.306	B	2.0	0.286	C	5.0	0.324	D	10	0.314	E	50	0.389
	F	100	0.331	G	150	0.310	H	200	0.296	I	20	0.350			
cis-1,2-Dichloroethene	A	1.0	0.246	B	2.0	0.242	C	5.0	0.291	D	10	0.285	E	50	0.315
	F	100	0.310	G	150	0.308	H	200	0.301	I	20	0.307			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	0.867	B	2.0	0.838	C	5.0	0.964	D	10	0.976	E	50	0.970
	F	100	1.01	G	150	0.946	H	200	0.861	I	20	0.984			
Cyclohexane	A	1.0	0.302	B	2.0	0.267	C	5.0	0.366	D	10	0.311	E	50	0.419
	F	100	0.412	G	150	0.404	H	200	0.413	I	20	0.389			
Dibromochloromethane	A	1.0	0.442	B	2.0	0.394	C	5.0	0.445	D	10	0.461	E	50	0.462
	F	100	0.473	G	150	0.437	H	200	0.412	I	20	0.476			
Dibromofluoromethane	A	50	0.255	B	50	0.258	C	50	0.256	D	50	0.256	E	50	0.258
	F	50	0.260	G	50	0.261	H	50	0.255	I	50	0.256			
Dichlorodifluoromethane	A	1.0	0.110	B	2.0	0.138	C	5.0	0.165	D	10	0.155	E	50	0.201
	F	100	0.180	G	150	0.172	H	200	0.171	I	20	0.181			
Ethylbenzene	A	1.0	2.47	B	2.0	2.16	C	5.0	2.70	D	10	2.58	E	50	2.63
	F	100	2.56	G	150	2.23	H	200	2.03	I	20	2.78			
Isopropylbenzene	A	1.0	2.13	B	2.0	1.81	C	5.0	2.30	D	10	2.11	E	50	2.35
	F	100	2.21	G	150	2.04	H	200	1.94	I	20	2.39			
m,p-Xylenes	A	2.0	1.84	B	4.0	1.65	C	10	1.94	D	20	1.91	E	100	1.86
	F	200	1.67	G	300	1.42	H	400	1.26	I	40	2.04			
Methyl Acetate	A	1.0	0.314	B	2.0	0.285	C	5.0	0.285	D	10	0.294	E	50	0.296
	F	100	0.291	G	150	0.285	H	200	0.270	I	20	0.287			
Methyl tert-Butyl Ether	A	1.0	0.310	B	2.0	0.317	C	5.0	0.363	D	10	0.361	E	50	0.381
	F	100	0.376	G	150	0.374	H	200	0.377	I	20	0.359			
Methylene Chloride	A	1.0	0.228	B	2.0	0.210	C	5.0	0.255	D	10	0.243	E	50	0.278
	F	100	0.266	G	150	0.259	H	200	0.256	I	20	0.264			
o-Xylene	A	1.0	1.82	B	2.0	1.66	C	5.0	2.00	D	10	1.97	E	50	1.96
	F	100	1.85	G	150	1.63	H	200	1.43	I	20	2.02			
Styrene	A	1.0	1.51	B	2.0	1.37	C	5.0	1.63	D	10	1.63	E	50	1.61
	F	100	1.58	G	150	1.37	H	200	1.28	I	20	1.68			
Tetrachloroethene (PCE)	A	1.0	0.392	B	2.0	0.356	C	5.0	0.466	D	10	0.436	E	50	0.492
	F	100	0.500	G	150	0.461	H	200	0.441	I	20	0.511			
Toluene	A	1.0	2.37	B	2.0	2.18	C	5.0	2.58	D	10	2.43	E	50	2.54
	F	100	2.47	G	150	2.16	H	200	1.99	I	20	2.73			
Toluene-d8	A	50	2.41	B	50	2.43	C	50	2.45	D	50	2.48	E	50	2.35
	F	50	2.44	G	50	2.41	H	50	2.34	I	50	2.48			
trans-1,2-Dichloroethene	A	1.0	0.258	B	2.0	0.248	C	5.0	0.305	D	10	0.285	E	50	0.345
	F	100	0.338	G	150	0.333	H	200	0.326	I	20	0.324			
trans-1,3-Dichloropropene	A	1.0	0.620	B	2.0	0.584	C	5.0	0.677	D	10	0.694	E	50	0.674
	F	100	0.714	G	150	0.664	H	200	0.623	I	20	0.697			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.181	B	2.0	0.172	C	5.0	0.213	D	10	0.204	E	50	0.233
	F	100	0.228	G	150	0.221	H	200	0.209	I	20	0.224			
Trichlorofluoromethane				B	2.0	0.137	C	5.0	0.190	D	10	0.176	E	50	0.225
	F	100	0.216	G	150	0.209	H	200	0.206	I	20	0.205			
Trichlorotrifluoroethane	A	1.0	0.154	B	2.0	0.138	C	5.0	0.181	D	10	0.175	E	50	0.223
	F	100	0.197	G	150	0.186	H	200	0.187	I	20	0.202			
Vinyl Chloride	A	1.0	0.208	B	2.0	0.198	C	5.0	0.254	D	10	0.242	E	50	0.277
										I	20	0.272			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.6		≤ 15	0.221		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	10.1		≤ 15	0.728		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	4.6		≤ 15	0.363		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.5		≤ 15	0.391		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	10.3		≤ 15	0.230		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	3.7		≤ 15	0.351		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.532		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	8.3		≤ 15	0.0760		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	5.6		≤ 15	0.403		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.5		≤ 15	1.09		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	6.6		≤ 15	0.139		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	1.8		≤ 15	0.145		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	6.4		≤ 15	0.227		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	9.8		≤ 15	1.20		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	7.2		≤ 15	1.22		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	9.2		≤ 15	0.0121		0.01
2-Hexanone	MS	AverageRF	% RSD	7.0		≤ 15	0.271		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	8.7		≤ 15	0.917		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.0		≤ 15	0.410		0.01
Acetone	MS	AverageRF	% RSD	8.2		≤ 15	0.0296		0.01
Benzene	MS	AverageRF	% RSD	7.1		≤ 15	0.899		0.01
Bromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	0.135		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.5		≤ 15	0.231		0.01
† Bromoform	MS	AverageRF	% RSD	13.8		≤ 15	0.218		0.1
Bromomethane	MS	AverageRF	% RSD	11.8		≤ 15	0.176		0.01
Carbon Disulfide	MS	AverageRF	% RSD	11.8		≤ 15	0.689		0.01
Carbon Tetrachloride	MS	Linear	R2	1.000		≥ 0.99	0.172		0.01
† Chlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	1.48		0.3
Chloroethane	MS	AverageRF	% RSD	9.6		≤ 15	0.161		0.01
‡ Chloroform	MS	AverageRF	% RSD	7.5		≤ 15	0.345		0.01
† Chloromethane	MS	AverageRF	% RSD	9.7		≤ 15	0.323		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	9.5		≤ 15	0.290		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	6.7		≤ 15	0.935		0.01
Cyclohexane	MS	Linear	R2	1.000		≥ 0.99	0.365		0.01
Dibromochloromethane	MS	AverageRF	% RSD	6.2		≤ 15	0.445		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	0.8		≤ 15	0.257		
Dichlorodifluoromethane	MS	Linear	R2	0.998		≥ 0.99	0.164		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	10.6		≤ 15	2.46		0.01
Isopropylbenzene	MS	AverageRF	% RSD	9.0		≤ 15	2.14		0.01
m,p-Xylenes	MS	AverageRF	% RSD	14.9		≤ 15	1.73		0.01
Methyl Acetate	MS	AverageRF	% RSD	4.1		≤ 15	0.290		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	7.3		≤ 15	0.358		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	AverageRF	% RSD	8.3		≤ 15	0.251		0.01
o-Xylene	MS	AverageRF	% RSD	11.2		≤ 15	1.81		0.01
Styrene	MS	AverageRF	% RSD	9.4		≤ 15	1.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	11.3		≤ 15	0.451		0.01
‡ Toluene	MS	AverageRF	% RSD	9.9		≤ 15	2.38		0.01
Toluene-d8	SURR	AverageRF	% RSD	2.1		≤ 15	2.42		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	11.5		≤ 15	0.307		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	6.5		≤ 15	0.661		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	10.0		≤ 15	0.209		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	14.3		≤ 15	0.196		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.8		≤ 15	0.183		0.01
‡ Vinyl Chloride	MS	Linear	R2	1.000		≥ 0.99	0.242		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

File ID: J:\MS53\DATA\MS53-120307\0307-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	0.489	0.523	7	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.221	0.234	6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	22	0.728	0.785	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.363	0.386	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.391	0.419	7	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.230	0.261	13	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	0.351	0.349	0	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	20	0.532	0.523	-2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	19	0.0760	0.0717	-6	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.403	0.427	6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	22	1.09	1.19	10	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	21	0.139	0.142	3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.227	0.240	6	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	22	1.20	1.35	12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	22	1.22	1.33	9	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	110	0.0121	0.0131	8	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.271	0.280	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	110	0.410	0.432	5	NA	± 30 %	AverageRF
Acetone	100	93	0.0296	0.0276	-7	NA	± 30 %	AverageRF
Benzene	20	22	0.899	0.979	9	NA	± 30 %	AverageRF
Bromochloromethane	20	21	0.135	0.143	6	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.231	0.244	5	NA	± 30 %	AverageRF
Bromoform	20	22	0.218	0.239	10	NA	± 30 %	AverageRF
Bromomethane	20	22	0.176	0.192	9	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.689	0.795	15	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.172	0.181	NA	-3	± 30 %	Linear
Chlorobenzene	20	22	1.48	1.62	10	NA	± 30 %	AverageRF
Chloroethane	20	22	0.161	0.175	9	NA	± 30 %	AverageRF
Chloroform	20	21	0.345	0.364	6	NA	± 30 %	AverageRF
Chloromethane	20	22	0.323	0.351	9	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.290	0.306	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	0.935	0.996	6	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.365	0.398	NA	0	± 30 %	Linear
Dibromochloromethane	20	21	0.445	0.478	7	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.164	0.164	NA	-11	± 30 %	Linear
Ethylbenzene	20	23	2.46	2.81	14	NA	± 30 %	AverageRF
Isopropylbenzene	20	23	2.14	2.41	13	NA	± 30 %	AverageRF
m,p-Xylenes	40	47	1.73	2.03	17	NA	± 30 %	AverageRF
Methyl Acetate	20	21	0.290	0.301	4	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.358	0.363	2	NA	± 30 %	AverageRF
Methylene Chloride	20	22	0.251	0.271	8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	23	1.81	2.07	14	NA	± 30 %	AverageRF
Styrene	20	22	1.52	1.70	12	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	23	0.451	0.515	14	NA	± 30 %	AverageRF
Toluene	20	23	2.38	2.71	14	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.307	0.328	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	21	0.661	0.696	5	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.209	0.229	10	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.196	0.206	5	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	22	0.183	0.199	9	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.242	0.264	NA	-2	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

File ID: J:\MS52\DATA\MS52-120322\0322-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	1.21	1.10	-9	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	18	0.01	0.786	0.715	-9	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	1.01	0.998	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.675	0.656	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	19	0.1	0.745	0.708	-5	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	17	0.01	0.629	0.526	-16	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	1.69	1.63	-4	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	0.01	1.92	1.86	-3	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.01	0.232	0.213	-8	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.878	0.824	-6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	18	0.01	2.42	2.22	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	18	0.01	0.536	0.491	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	50		0.251	0.251	0	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	19	0.01	0.396	0.378	-4	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	19	0.01	2.67	2.49	-7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	18	0.01	2.65	2.44	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.126	0.129	3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.01	0.514	0.521	1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	47		0.918	0.861	-6	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.01	0.729	0.733	1	NA	± 30 %	AverageRF
Acetone	100	98	0.01	0.0878	0.0782	NA	-2	± 30 %	Linear
Benzene	20	19	0.01	1.74	1.63	-6	NA	± 30 %	AverageRF
Bromochloromethane	20	20	0.01	0.265	0.260	-2	NA	± 30 %	AverageRF
Bromodichloromethane	20	18	0.01	0.592	0.536	-9	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.693	0.631	-9	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.267	0.247	-7	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	1.03	1.20	16	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.667	0.591	NA	-17	± 30 %	Linear
Chlorobenzene	20	19	0.3	3.32	3.19	-4	NA	± 30 %	AverageRF
Chloroethane	20	19	0.01	0.302	0.288	-4	NA	± 30 %	AverageRF
Chloroform	20	18	0.01	0.828	0.729	-12	NA	± 20 %	AverageRF
Chloromethane	20	17	0.1	0.551	0.480	-13	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	19	0.01	0.573	0.541	-6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	19	0.01	1.71	1.63	-5	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.684	0.674	-2	NA	± 30 %	AverageRF
Dibromochloromethane	20	18	0.01	1.09	0.995	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.241	0.238	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.01	0.554	0.489	-12	NA	± 30 %	AverageRF
Ethylbenzene	20	19	0.01	5.75	5.57	-3	NA	± 20 %	AverageRF
Isopropylbenzene	20	21	0.01	4.91	5.09	4	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	39	0.01	4.53	4.39	-3	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.510	0.509	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	1.08	1.05	-2	NA	± 30 %	AverageRF
Methylene Chloride	20	17	0.01	0.533	0.395	NA	-17	± 30 %	Linear
o-Xylene	20	19	0.01	4.72	4.49	-5	NA	± 30 %	AverageRF
Styrene	20	20	0.01	3.52	3.47	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.01	1.13	1.12	-1	NA	± 30 %	AverageRF
Toluene	20	19	0.01	5.02	4.81	-4	NA	± 20 %	AverageRF
Toluene-d8	50	51		2.48	2.51	1	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	18	0.01	0.609	0.556	-9	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	1.58	1.46	-8	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	19	0.01	0.516	0.490	-5	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	18	0.01	0.810	0.722	-11	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	17	0.01	0.405	0.353	-13	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.434	0.432	-1	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

File ID: J:\MS53\DATA\MS53-120330\0330-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.459	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.208	-6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.719	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.398	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.256	11	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	18	0.01	0.351	0.323	-8	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.468	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	15	0.01	0.0760	0.0577	-24	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.373	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	0.01	1.09	1.08	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.136	-2	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	49		0.145	0.144	-1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.238	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.22	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	0.01	1.22	1.26	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0127	5	NA	± 30 %	AverageRF
2-Hexanone	100	94	0.01	0.271	0.254	-6	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	54		0.917	0.993	8	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.384	-6	NA	± 30 %	AverageRF
Acetone	100	93	0.01	0.0296	0.0274	-7	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.927	3	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.132	-3	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.228	-2	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.218	0.201	-8	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.162	-8	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.172	0.159	NA	-15	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.160	0	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.338	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.378	17	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.296	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.934	0	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.387	NA	-2	± 30 %	Linear
Dibromochloromethane	20	19	0.01	0.445	0.411	-8	NA	± 30 %	AverageRF
Dibromofluoromethane	50	49		0.257	0.254	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.194	NA	6	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.49	1	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.50	17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.290	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.357	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.252	0	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.80	-1	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.50	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.428	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.33	-2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.299	-2	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	19	0.01	0.661	0.637	-4	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.207	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.183	0	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.278	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

File ID: J:\MS53\DATA\MS53-120402\0402-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.460	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.212	-4	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.729	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.352	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.399	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.01	0.230	0.263	14	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.470	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0614	-19	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	18	0.01	0.403	0.371	-8	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.02	-6	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	19	0.01	0.139	0.132	-5	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	47		0.145	0.137	-6	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.237	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.21	-1	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.01	0.0121	0.0118	-3	NA	± 30 %	AverageRF
2-Hexanone	100	92	0.01	0.271	0.249	-8	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	53		0.917	0.967	5	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.386	-6	NA	± 30 %	AverageRF
Acetone	100	88	0.01	0.0296	0.0261	-12	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.965	7	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.129	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.234	1	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.211	-3	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.176	0.165	-6	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	0.689	0.804	17	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.170	NA	-9	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.46	-1	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.163	1	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.336	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.375	16	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.01	0.290	0.305	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.946	1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.407	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.257	0.259	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.191	NA	5	± 30 %	Linear
Ethylbenzene	20	19	0.01	2.46	2.36	-4	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.43	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.283	-2	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.360	1	NA	± 30 %	AverageRF
Methylene Chloride	20	21	0.01	0.251	0.261	4	NA	± 30 %	AverageRF
o-Xylene	20	21	0.01	1.81	1.87	3	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.52	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.429	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.42	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.309	1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.653	-1	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.208	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.194	-1	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.186	2	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.242	0.276	NA	2	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

File ID: J:\MS53\DATA\MS53-120403\0403-03.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	0.489	0.451	-8	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.210	-5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.734	1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.1	0.391	0.401	3	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.251	9	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.481	-10	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0607	-20	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.375	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.05	-3	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.137	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	48		0.145	0.140	-3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.233	3	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.20	1.23	3	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.20	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0124	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.271	0.252	-7	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	51		0.917	0.942	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.385	-6	NA	± 30 %	AverageRF
Acetone	100	92	0.01	0.0296	0.0273	-8	NA	± 30 %	AverageRF
Benzene	20	20	0.01	0.899	0.915	2	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.128	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.01	0.231	0.238	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.202	-7	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.157	-11	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.166	NA	-11	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	21	0.01	0.161	0.165	3	NA	± 30 %	AverageRF
Chloroform	20	19	0.01	0.345	0.329	-5	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.369	14	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.289	0	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.922	-1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.406	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48		0.257	0.248	-4	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.189	NA	4	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.51	2	NA	± 20 %	AverageRF
Isopropylbenzene	20	22	0.01	2.14	2.38	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.78	3	NA	± 30 %	AverageRF
Methyl Acetate	20	19	0.01	0.290	0.272	-6	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.358	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.246	-2	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.82	0	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.51	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.420	-7	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.44	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.31	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.304	-1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.651	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.206	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.01	0.183	0.192	5	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.280	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200306
Instrument ID: MS52

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0322-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200306-1	3/22/2012	09:17		3/22/2012	09:32
\0322-02.D	Continuing Calibration Verification	JWG1200306-2	3/22/2012	09:45		3/22/2012	10:00
\0322-03.D	Lab Control Sample	JWG1200305-1	3/22/2012	10:14		3/22/2012	10:29
\0322-05.D	Method Blank	JWG1200305-2	3/22/2012	11:28		3/22/2012	11:43
\0322-19.D	CRHE-188849-IDW-03212012	J1201360-025	3/22/2012	18:20		3/22/2012	18:35
\0322-20.D	CRHE-188797-IDW-03212012	J1201360-026	3/22/2012	18:48		3/22/2012	19:03
\0322-21.D	CRHE-188842-IDW-03212012	J1201360-027	3/22/2012	19:17		3/22/2012	19:32
\0322-22.D	CRHE-188838-IDW-03212012	J1201360-028	3/22/2012	19:45		3/22/2012	20:00

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200322
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0330-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200322-1	3/30/2012	10:42		3/30/2012	10:57
\0330-02.D	Continuing Calibration Verification	JWG1200322-2	3/30/2012	11:12		3/30/2012	11:27
\0330-03.D	Lab Control Sample	JWG1200321-1	3/30/2012	11:42		3/30/2012	11:57
\0330-06.D	Method Blank	JWG1200321-2	3/30/2012	13:10		3/30/2012	13:25
\0330-07.D	CRHE-MW0032-045.0-03192012	J1201360-001	3/30/2012	13:40		3/30/2012	13:55
\0330-08.D	CRHE-MW0030-010.0-03192012	J1201360-002	3/30/2012	14:10		3/30/2012	14:25
\0330-09.D	CRHE-MW0023-065.0-03192012	J1201360-003	3/30/2012	14:40		3/30/2012	14:55
\0330-10.D	CRHE-MW0031-045.0-03192012	J1201360-004	3/30/2012	15:09		3/30/2012	15:24
\0330-11.D	CRHE-IW0020I-045.0-03192012	J1201360-005	3/30/2012	15:39		3/30/2012	15:54
\0330-12.D	CRHE-MW0039-030.0-03192012	J1201360-006	3/30/2012	16:09		3/30/2012	16:24
\0330-13.D	CRHE-MW0038-010.0-03192012	J1201360-007	3/30/2012	16:39		3/30/2012	16:54
\0330-14.D	EB01-03192012	J1201360-008	3/30/2012	17:09		3/30/2012	17:24
\0330-15.D	CRHE-IW0015I-040.0-03192012	J1201360-009	3/30/2012	17:39		3/30/2012	17:54
\0330-16.D	CRHE-MW0034-038.5-03202012	J1201360-010	3/30/2012	18:09		3/30/2012	18:24
\0330-17.D	CRHE-IW0019I-040.0-03202012	J1201360-011	3/30/2012	18:39		3/30/2012	18:54
\0330-18.D	CRHE-MW0033-048.5-03202012	J1201360-012	3/30/2012	19:09		3/30/2012	19:24
\0330-19.D	CRHE-IW0021I-045.0-03202012	J1201360-013	3/30/2012	19:39		3/30/2012	19:54
\0330-20.D	CRHE-MW0035-045.0-03202012	J1201360-014	3/30/2012	20:09		3/30/2012	20:24
\0330-21.D	CRHE-MW0028-040.0-03202012	J1201360-015	3/30/2012	20:39		3/30/2012	20:54
\0330-22.D	CRHE-MW0037-030.0-03202012	J1201360-016	3/30/2012	21:08		3/30/2012	21:23
\0330-23.D	CRHE-IW0017I-030.0-03202012	J1201360-017	3/30/2012	21:38		3/30/2012	21:53

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B
Analysis Lot: JWG1200326
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0402-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200326-1	4/2/2012	08:51		4/2/2012	09:06
\0402-02.D	Continuing Calibration Verification	JWG1200326-2	4/2/2012	09:21		4/2/2012	09:36
\0402-03.D	Lab Control Sample	JWG1200325-1	4/2/2012	09:51		4/2/2012	10:06
\0402-06.D	Method Blank	JWG1200325-2	4/2/2012	11:20		4/2/2012	11:35
\0402-07.D	Trip Blank	J1201360-029	4/2/2012	11:50		4/2/2012	12:05
\0402-08.D	CRHE-MW0032-045.0-03192012	J1201360-001	4/2/2012	12:20		4/2/2012	12:35
\0402-09.D	CRHE-MW0031-045.0-03192012	J1201360-004	4/2/2012	12:49		4/2/2012	13:04
\0402-10.D	CRHE-IW0020I-045.0-03192012	J1201360-005	4/2/2012	13:20		4/2/2012	13:35
\0402-11.D	CRHE-MW0039-030.0-03192012	J1201360-006	4/2/2012	13:50		4/2/2012	14:05
\0402-12.D	CRHE-MW0034-038.5-03202012	J1201360-010	4/2/2012	14:20		4/2/2012	14:35
\0402-13.D	CRHE-IW0019I-040.0-03202012	J1201360-011	4/2/2012	14:50		4/2/2012	15:05
\0402-14.D	CRHE-MW0035-045.0-03202012	J1201360-014	4/2/2012	15:19		4/2/2012	15:34
\0402-15.D	CRHE-MW0028-040.0-03202012	J1201360-015	4/2/2012	15:49		4/2/2012	16:04
\0402-16.D	CRHE-IW0017I-030.0-03202012	J1201360-017	4/2/2012	16:19		4/2/2012	16:34
\0402-17.D	CRHE-MW0027-045.0-03212012	J1201360-022	4/2/2012	16:49		4/2/2012	17:04
\0402-18.D	CRHE-MW0022-065.0-03212012	J1201360-021	4/2/2012	17:19		4/2/2012	17:34
\0402-19.D	CRHE-MW0026-035.0-03212012	J1201360-020	4/2/2012	17:49		4/2/2012	18:04
\0402-20.D	CRHE-MW0029-045.0-03212012	J1201360-019	4/2/2012	18:19		4/2/2012	18:34
\0402-21.D	CRHE-IW0014I-040.0-03212012	J1201360-018	4/2/2012	18:49		4/2/2012	19:04
\0402-22.D	CRHE-MW0024-010.0-03212012	J1201360-023	4/2/2012	19:19		4/2/2012	19:34

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analysis Lot: JWG1200334
Instrument ID: MS53

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
\0403-01.D	GC/MS Tuning - Bromofluorobenzene	JWG1200334-1	4/3/2012	10:53		4/3/2012	11:08
\0403-03.D	Continuing Calibration Verification	JWG1200334-2	4/3/2012	11:53		4/3/2012	12:08
\0403-04.D	Lab Control Sample	JWG1200333-3	4/3/2012	12:25		4/3/2012	12:40
\0403-07.D	Method Blank	JWG1200333-4	4/3/2012	13:53		4/3/2012	14:08
\0403-08.D	CRHE-IW0014I-040.0-03212012	J1201360-018	4/3/2012	14:23		4/3/2012	14:38
\0403-09.D	CRHE-MW0022-065.0-03212012	J1201360-021	4/3/2012	14:52		4/3/2012	15:07
\0403-10.D	CRHE-MW0029-045.0-03212012	J1201360-019	4/3/2012	15:22		4/3/2012	15:37
\0403-11.D	CRHE-MW0026-035.0-03212012	J1201360-020	4/3/2012	15:51		4/3/2012	16:06
\0403-12.D	CRHE-MW0027-045.0-03212012	J1201360-022	4/3/2012	16:21		4/3/2012	16:36
\0403-13.D	CHRE-MW0036-010.0-03202012	J1201360-030	4/3/2012	16:50		4/3/2012	17:05
\0403-14.D	CRHE-MW0025-030.0-03212012	J1201360-024	4/3/2012	17:20		4/3/2012	17:35
\0403-16.D	CRHE-MW0025-030.0-03212012	J1201360-024	4/3/2012	18:18		4/3/2012	18:33
\0403-17.D	ZZZZZZ	ZZZZZZ	4/3/2012	18:48		4/3/2012	19:03
\0403-18.D	ZZZZZZ	ZZZZZZ	4/3/2012	19:17		4/3/2012	19:32
\0403-19.D	ZZZZZZ	ZZZZZZ	4/3/2012	19:46		4/3/2012	20:01
\0403-20.D	ZZZZZZ	ZZZZZZ	4/3/2012	20:16		4/3/2012	20:31
\0403-21.D	ZZZZZZ	ZZZZZZ	4/3/2012	20:46		4/3/2012	21:01
\0403-22.D	ZZZZZZ	ZZZZZZ	4/3/2012	21:15		4/3/2012	21:30
\0403-23.D	ZZZZZZ	ZZZZZZ	4/3/2012	21:45		4/3/2012	22:00
\0403-24.D	ZZZZZZ	ZZZZZZ	4/3/2012	22:15		4/3/2012	22:30
\0403-26.D	ZZZZZZ	ZZZZZZ	4/3/2012	23:14		4/3/2012	23:29
\0403-27.D	ZZZZZZ	ZZZZZZ	4/3/2012	23:44		4/3/2012	23:59

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200321
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-MW0032-045.0-03192(	J1201360-001	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0030-010.0-03192(	J1201360-002	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0023-065.0-03192(	J1201360-003	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0031-045.0-03192(	J1201360-004	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0020I-045.0-031920	J1201360-005	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0039-030.0-03192(	J1201360-006	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0038-010.0-03192(	J1201360-007	03/19/12	03/22/12	10ml	10ml	NA	
EB01-03192012	J1201360-008	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0015I-040.0-031920	J1201360-009	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0034-038.5-03202(	J1201360-010	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0019I-040.0-032020	J1201360-011	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0033-048.5-03202(	J1201360-012	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0021I-045.0-032020	J1201360-013	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0035-045.0-03202(	J1201360-014	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0028-040.0-03202(	J1201360-015	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0037-030.0-03202(	J1201360-016	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0017I-030.0-032020	J1201360-017	03/20/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200321-2	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200321-1	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200325
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-MW0032-045.0-03192(	J1201360-001	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0031-045.0-03192(	J1201360-004	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-IW0020I-045.0-031920	J1201360-005	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0039-030.0-03192(	J1201360-006	03/19/12	03/22/12	10ml	10ml	NA	
CRHE-MW0034-038.5-03202(	J1201360-010	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0019I-040.0-032020	J1201360-011	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0035-045.0-03202(	J1201360-014	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-MW0028-040.0-03202(	J1201360-015	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0017I-030.0-032020	J1201360-017	03/20/12	03/22/12	10ml	10ml	NA	
CRHE-IW0014I-040.0-032120	J1201360-018	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0029-045.0-03212(	J1201360-019	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0026-035.0-03212(	J1201360-020	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0022-065.0-03212(	J1201360-021	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0027-045.0-03212(	J1201360-022	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0024-010.0-03212(	J1201360-023	03/21/12	03/22/12	10ml	10ml	NA	
Trip Blank	J1201360-029	03/19/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200325-2	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200325-1	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Extraction Lot: JWG1200333
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-IW0014I-040.0-032120	J1201360-018	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0029-045.0-03212C	J1201360-019	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0026-035.0-03212C	J1201360-020	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0022-065.0-03212C	J1201360-021	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0027-045.0-03212C	J1201360-022	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0025-030.0-03212C	J1201360-024	03/21/12	03/22/12	10ml	10ml	NA	
CRHE-MW0025-030.0-03212C	J1201360-024	03/21/12	03/22/12	10ml	10ml	NA	
CHRE-MW0036-010.0-03202C	J1201360-030	03/20/12	03/22/12	10ml	10ml	NA	
Method Blank	JWG1200333-4	NA	NA	10ml	10ml	NA	
Lab Control Sample	JWG1200333-3	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012

Extraction Prep Log
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Extraction Lot: JWG1200305
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
CRHE-188849-IDW-03212012	J1201360-025	03/21/12	03/22/12	5.9300g	5mL	84	
CRHE-188797-IDW-03212012	J1201360-026	03/21/12	03/22/12	5.1200g	5mL	88	
CRHE-188842-IDW-03212012	J1201360-027	03/21/12	03/22/12	5.9600g	5mL	83	
CRHE-188838-IDW-03212012	J1201360-028	03/21/12	03/22/12	5.3500g	5mL	81	
Method Blank	JWG1200305-2	NA	NA	5.00g	5ml	100	
Lab Control Sample	JWG1200305-1	NA	NA	5.00g	5ml	100	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

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Validation Package

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Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

p:\Stealth\Crystal.rpt\DividerB.rpt

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

QC Reports

p:\Stealth\Crystal.rpt\DividerC.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-MW0032-045.0-03192012	J1201360-001	97	109	99	98
CRHE-MW0030-010.0-03192012	J1201360-002	98	106	98	101
CRHE-MW0023-065.0-03192012	J1201360-003	100	107	99	96
CRHE-MW0031-045.0-03192012	J1201360-004	97	106	100	98
CRHE-IW0020I-045.0-03192012	J1201360-005	96	107	100	99
CRHE-MW0039-030.0-03192012	J1201360-006	99	113	99	97
CRHE-MW0038-010.0-03192012	J1201360-007	100	109	100	100
EB01-03192012	J1201360-008	97	106	99	101
CRHE-IW0015I-040.0-03192012	J1201360-009	101	107	99	100
CRHE-MW0034-038.5-03202012	J1201360-010	99	109	101	98
CRHE-IW0019I-040.0-03202012	J1201360-011	98	105	97	102
CRHE-MW0033-048.5-03202012	J1201360-012	96	109	96	103
CRHE-IW0021I-045.0-03202012	J1201360-013	99	109	99	99
CRHE-MW0035-045.0-03202012	J1201360-014	99	108	98	96
CRHE-MW0028-040.0-03202012	J1201360-015	95	110	98	98
CRHE-MW0037-030.0-03202012	J1201360-016	97	107	99	98
CRHE-IW0017I-030.0-03202012	J1201360-017	97	108	99	100
CRHE-IW0014I-040.0-03212012	J1201360-018	94	107	97	99
CRHE-MW0029-045.0-03212012	J1201360-019	98	112	99	100
CRHE-MW0026-035.0-03212012	J1201360-020	99	108	95	96
CRHE-MW0022-065.0-03212012	J1201360-021	99	107	99	98
CRHE-MW0027-045.0-03212012	J1201360-022	96	107	98	96
CRHE-MW0024-010.0-03212012	J1201360-023	98	107	99	98
CRHE-MW0025-030.0-03212012	J1201360-024	97	111	92	98
Trip Blank	J1201360-029	94	111	97	96
CHRE-MW0036-010.0-03202012	J1201360-030	97	111	97	100
Method Blank	JWG1200321-2	98	105	100	95
Method Blank	JWG1200325-2	99	105	99	98
Method Blank	JWG1200333-4	96	103	97	96
Lab Control Sample	JWG1200321-1	99	107	99	100
Lab Control Sample	JWG1200325-1	94	104	98	97
Lab Control Sample	JWG1200333-3	95	109	97	96

Surrogate Recovery Control Limits (%)

Sur1 =	1,2-Dichloroethane-d4	72-121
Sur2 =	4-Bromofluorobenzene	86-113
Sur3 =	Dibromofluoromethane	86-112
Sur4 =	Toluene-d8	88-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360

Surrogate Recovery Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4
CRHE-188849-IDW-03212012	J1201360-025	94	99	96	101
CRHE-188797-IDW-03212012	J1201360-026	92	102	96	105
CRHE-188842-IDW-03212012	J1201360-027	90	103	91	105
CRHE-188838-IDW-03212012	J1201360-028	94	116	99	108
Method Blank	JWG1200305-2	94	95	96	102
Lab Control Sample	JWG1200305-1	94	97	98	101

Surrogate Recovery Control Limits (%)

Sur1 = 1,2-Dichloroethane-d4	80-120
Sur2 = 4-Bromofluorobenzene	64-135
Sur3 = Dibromofluoromethane	74-125
Sur4 = Toluene-d8	46-156

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:45

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-02.D
Instrument ID: MS52
Analysis Method: 8260B

Lab Code: JWG1200306-2
Analysis Lot: JWG1200306

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	53,457	11.60	47,863	9.16	122,997	6.17
	Upper Limit ==>	106,914	12.10	95,726	9.66	245,994	6.67
	Lower Limit ==>	26,729	11.10	23,932	8.66	61,499	5.67
	ICAL Result ==>	48,766	11.60	43,592	9.16	110,750	6.17
Associated Analyses							
Lab Control Sample	JWG1200305-1	52,658	11.60	48,614	9.16	125,564	6.17
Method Blank	JWG1200305-2	50,853	11.59	47,975	9.16	125,218	6.17
CRHE-188849-IDW-03212012	J1201360-025	45,168	11.60	46,360	9.16	121,432	6.17
CRHE-188797-IDW-03212012	J1201360-026	40,555	11.60	43,358	9.16	116,772	6.17
CRHE-188842-IDW-03212012	J1201360-027	40,415	11.60	42,767	9.17	117,887	6.17
CRHE-188838-IDW-03212012	J1201360-028	35,955	11.60	42,626	9.16	118,248	6.18

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200322-2
Analysis Lot: JWG1200322

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	328,039	11.12	413,475	8.80	1,184,883	5.51
	Upper Limit ==>	656,078	11.62	826,950	9.30	2,369,766	6.01
	Lower Limit ==>	164,020	10.62	206,738	8.30	592,442	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200321-1	318,654	11.12	397,222	8.80	1,171,291	5.51
Method Blank	JWG1200321-2	337,907	11.13	403,441	8.80	1,145,808	5.51
CRHE-MW0032-045.0-03192012	J1201360-001	315,754	11.13	399,126	8.80	1,148,047	5.51
CRHE-MW0030-010.0-03192012	J1201360-002	323,166	11.13	392,864	8.80	1,177,874	5.51
CRHE-MW0023-065.0-03192012	J1201360-003	322,551	11.13	384,128	8.80	1,104,427	5.52
CRHE-MW0031-045.0-03192012	J1201360-004	331,420	11.13	396,550	8.80	1,156,645	5.51
CRHE-IW0020I-045.0-03192012	J1201360-005	322,585	11.13	393,897	8.80	1,164,407	5.51
CRHE-MW0039-030.0-03192012	J1201360-006	319,516	11.13	401,946	8.80	1,172,242	5.51
CRHE-MW0038-010.0-03192012	J1201360-007	327,430	11.13	405,589	8.80	1,173,486	5.51
EB01-03192012	J1201360-008	330,521	11.13	389,632	8.80	1,146,764	5.51
CRHE-IW0015I-040.0-03192012	J1201360-009	332,367	11.13	389,217	8.80	1,147,109	5.52
CRHE-MW0034-038.5-03202012	J1201360-010	321,006	11.13	397,996	8.80	1,125,602	5.52
CRHE-IW0019I-040.0-03202012	J1201360-011	316,893	11.13	382,659	8.80	1,133,176	5.51
CRHE-MW0033-048.5-03202012	J1201360-012	324,878	11.13	388,136	8.80	1,169,094	5.52
CRHE-IW0021I-045.0-03202012	J1201360-013	320,327	11.13	393,071	8.80	1,149,686	5.51
CRHE-MW0035-045.0-03202012	J1201360-014	330,706	11.12	409,470	8.80	1,174,443	5.52
CRHE-MW0028-040.0-03202012	J1201360-015	319,532	11.13	409,711	8.80	1,202,891	5.51
CRHE-MW0037-030.0-03202012	J1201360-016	322,399	11.13	400,508	8.80	1,144,939	5.51
CRHE-IW0017I-030.0-03202012	J1201360-017	326,036	11.12	400,878	8.80	1,158,793	5.51

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 09:21

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-02.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200326-2
Analysis Lot: JWG1200326

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	RT	Area	RT	Area	RT
	Results ==>	338,282	11.13	419,066	8.80	1,182,437	5.51
	Upper Limit ==>	676,564	11.63	838,132	9.30	2,364,874	6.01
	Lower Limit ==>	169,141	10.63	209,533	8.30	591,219	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200325-1	322,206	11.13	386,918	8.80	1,106,267	5.51
Method Blank	JWG1200325-2	322,051	11.13	383,241	8.80	1,093,788	5.51
Trip Blank	J1201360-029	314,454	11.13	402,969	8.80	1,172,678	5.51
CRHE-MW0032-045.0-03192012D	J1201360-001	317,812	11.13	379,377	8.80	1,119,988	5.51
CRHE-MW0031-045.0-03192012D	J1201360-004	322,770	11.13	395,883	8.80	1,159,224	5.51
CRHE-IW0020I-045.0-03192012D	J1201360-005	319,432	11.13	390,271	8.80	1,120,582	5.51
CRHE-MW0039-030.0-03192012D	J1201360-006	325,142	11.13	389,370	8.80	1,108,624	5.51
CRHE-MW0034-038.5-03202012D	J1201360-010	327,008	11.13	395,803	8.80	1,096,028	5.51
CRHE-IW0019I-040.0-03202012D	J1201360-011	319,532	11.13	392,191	8.80	1,116,694	5.51
CRHE-MW0035-045.0-03202012D	J1201360-014	317,749	11.13	383,466	8.80	1,119,903	5.52
CRHE-MW0028-040.0-03202012D	J1201360-015	320,292	11.13	385,204	8.80	1,151,728	5.51
CRHE-IW0017I-030.0-03202012D	J1201360-017	313,536	11.13	395,840	8.80	1,123,689	5.51
CRHE-MW0027-045.0-03212012	J1201360-022	316,218	11.13	402,165	8.80	1,116,092	5.52
CRHE-MW0022-065.0-03212012	J1201360-021	332,100	11.13	405,929	8.80	1,179,725	5.52
CRHE-MW0026-035.0-03212012	J1201360-020	326,026	11.13	414,330	8.80	1,170,714	5.52
CRHE-MW0029-045.0-03212012	J1201360-019	314,676	11.13	399,293	8.80	1,157,084	5.52
CRHE-IW0014I-040.0-03212012	J1201360-018	324,993	11.13	393,830	8.80	1,133,953	5.52
CRHE-MW0024-010.0-03212012	J1201360-023	318,409	11.13	384,678	8.80	1,105,383	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 11:53

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-03.D
Instrument ID: MS53
Analysis Method: 8260B

Lab Code: JWG1200334-2
Analysis Lot: JWG1200334

		1,4-Dichlorobenzene-d4		Chlorobenzene-d5		Fluorobenzene	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	317,277	11.13	383,361	8.80	1,079,939	5.51
	Upper Limit ==>	634,554	11.63	766,722	9.30	2,159,878	6.01
	Lower Limit ==>	158,639	10.63	191,681	8.30	539,970	5.01
	ICAL Result ==>	361,728	11.12	426,985	8.79	1,305,616	5.51
Associated Analyses							
Lab Control Sample	JWG1200333-3	309,433	11.13	402,331	8.80	1,130,474	5.51
Method Blank	JWG1200333-4	316,138	11.13	389,420	8.80	1,095,457	5.51
CRHE-IW0014I-040.0-03212012RI	J1201360-018	316,659	11.13	370,802	8.80	1,091,211	5.51
CRHE-MW0022-065.0-03212012R	J1201360-021	315,576	11.13	390,002	8.80	1,108,138	5.51
CRHE-MW0029-045.0-03212012D	J1201360-019	301,400	11.13	375,955	8.80	1,085,571	5.51
CRHE-MW0026-035.0-03212012D	J1201360-020	304,045	11.12	375,196	8.80	1,067,834	5.51
CRHE-MW0027-045.0-03212012D	J1201360-022	304,830	11.12	381,443	8.80	1,056,074	5.51
CHRE-MW0036-010.0-03202012	J1201360-030	307,096	11.13	380,864	8.80	1,120,196	5.51
CRHE-MW0025-030.0-03212012	J1201360-024	305,472	11.13	384,814	8.80	1,106,582	5.51
CRHE-MW0025-030.0-03212012D	J1201360-024	313,276	11.13	402,002	8.80	1,159,827	5.52

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

	Lab Control Sample JWG1200321-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	19.8	20.0	99	77-118
1,1,1-Trichloroethane (TCA)	19.6	20.0	98	70-122
1,1,2,2-Tetrachloroethane	20.3	20.0	102	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	20.5	20.0	103	79-117
1,1-Dichloroethene	23.0	20.0	115	72-128
1,2,3-Trichlorobenzene	20.7	20.0	104	62-136
1,2,4-Trichlorobenzene	19.2	20.0	96	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.5	20.0	82	60-122
1,2-Dibromoethane (EDB)	18.7	20.0	93	76-118
1,2-Dichlorobenzene	20.5	20.0	103	81-115
1,2-Dichloroethane (EDC)	19.9	20.0	100	70-117
1,2-Dichloropropane	21.6	20.0	108	79-117
1,3-Dichlorobenzene	21.5	20.0	107	82-116
1,4-Dichlorobenzene	20.9	20.0	105	82-115
2-Butanone (MEK)	102	100	102	62-138
2-Hexanone	93.2	100	93	74-127
4-Methyl-2-pentanone (MIBK)	96.1	100	96	77-120
Acetone	88.3	100	88	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.6	20.0	98	78-118
Bromodichloromethane	20.2	20.0	101	75-118
Bromoform	19.2	20.0	96	63-121
Bromomethane	19.1	20.0	95	31-153
Carbon Disulfide	119	100	119	72-128
Carbon Tetrachloride	18.3	20.0	91	67-124
Chlorobenzene	20.7	20.0	103	83-118
Chloroethane	21.5	20.0	107	68-132
Chloroform	19.6	20.0	98	77-116
Chloromethane	24.8	20.0	124	60-128
cis-1,2-Dichloroethene	21.5	20.0	108	78-117
cis-1,3-Dichloropropene	20.9	20.0	105	80-119
Cyclohexane	20.3	20.0	102	75-124
Dibromochloromethane	19.4	20.0	97	74-121
Dichlorodifluoromethane	22.1	20.0	111	49-132
Ethylbenzene	21.8	20.0	109	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200321

Analyte Name	Lab Control Sample JWG1200321-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	24.0	20.0	120 *	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	19.4	20.0	97	50-137
Methyl tert-Butyl Ether	20.0	20.0	100	73-118
Methylene Chloride	20.5	20.0	103	75-123
o-Xylene	21.3	20.0	106	80-119
Styrene	20.9	20.0	105	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	20.9	20.0	104	75-121
trans-1,3-Dichloropropene	19.7	20.0	98	76-118
Trichloroethene (TCE)	20.6	20.0	103	78-122
Trichlorofluoromethane	20.3	20.0	101	58-134
Trichlorotrifluoroethane	21.4	20.0	107	77-128
Vinyl Chloride	21.4	20.0	107	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

	Lab Control Sample JWG1200325-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	19.4	20.0	97	77-118
1,1,1-Trichloroethane (TCA)	20.2	20.0	101	70-122
1,1,2,2-Tetrachloroethane	21.1	20.0	106	66-135
1,1,2-Trichloroethane	19.6	20.0	98	75-122
1,1-Dichloroethane	21.2	20.0	106	79-117
1,1-Dichloroethene	23.6	20.0	118	72-128
1,2,3-Trichlorobenzene	19.5	20.0	98	62-136
1,2,4-Trichlorobenzene	18.7	20.0	93	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.7	20.0	83	60-122
1,2-Dibromoethane (EDB)	19.1	20.0	96	76-118
1,2-Dichlorobenzene	20.3	20.0	101	81-115
1,2-Dichloroethane (EDC)	19.8	20.0	99	70-117
1,2-Dichloropropane	21.5	20.0	108	79-117
1,3-Dichlorobenzene	21.0	20.0	105	82-116
1,4-Dichlorobenzene	21.0	20.0	105	82-115
2-Butanone (MEK)	99.8	100	100	62-138
2-Hexanone	94.3	100	94	74-127
4-Methyl-2-pentanone (MIBK)	95.0	100	95	77-120
Acetone	86.2	100	86	42-161
Benzene	21.4	20.0	107	80-117
Bromochloromethane	19.4	20.0	97	78-118
Bromodichloromethane	20.9	20.0	104	75-118
Bromoform	20.2	20.0	101	63-121
Bromomethane	19.4	20.0	97	31-153
Carbon Disulfide	121	100	121	72-128
Carbon Tetrachloride	19.3	20.0	96	67-124
Chlorobenzene	20.3	20.0	101	83-118
Chloroethane	22.3	20.0	112	68-132
Chloroform	20.5	20.0	102	77-116
Chloromethane	25.2	20.0	126	60-128
cis-1,2-Dichloroethene	21.7	20.0	108	78-117
cis-1,3-Dichloropropene	20.7	20.0	104	80-119
Cyclohexane	20.8	20.0	104	75-124
Dibromochloromethane	19.5	20.0	97	74-121
Dichlorodifluoromethane	22.3	20.0	111	49-132
Ethylbenzene	21.1	20.0	105	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200325

Analyte Name	Lab Control Sample JWG1200325-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	23.8	20.0	119	78-119
m,p-Xylenes	44.3	40.0	111	79-122
Methyl Acetate	18.4	20.0	92	50-137
Methyl tert-Butyl Ether	20.8	20.0	104	73-118
Methylene Chloride	21.2	20.0	106	75-123
o-Xylene	21.4	20.0	107	80-119
Styrene	21.2	20.0	106	80-121
Tetrachloroethene (PCE)	20.2	20.0	101	75-126
Toluene	21.1	20.0	105	52-152
trans-1,2-Dichloroethene	21.2	20.0	106	75-121
trans-1,3-Dichloropropene	19.9	20.0	100	76-118
Trichloroethene (TCE)	20.8	20.0	104	78-122
Trichlorofluoromethane	21.2	20.0	106	58-134
Trichlorotrifluoroethane	22.4	20.0	112	77-128
Vinyl Chloride	22.0	20.0	110	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

Analyte Name	Lab Control Sample JWG1200333-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	18.9	20.0	95	77-118
1,1,1-Trichloroethane (TCA)	19.5	20.0	97	70-122
1,1,2,2-Tetrachloroethane	19.6	20.0	98	66-135
1,1,2-Trichloroethane	19.4	20.0	97	75-122
1,1-Dichloroethane	20.4	20.0	102	79-117
1,1-Dichloroethene	22.4	20.0	112	72-128
1,2,3-Trichlorobenzene	19.2	20.0	96	62-136
1,2,4-Trichlorobenzene	17.9	20.0	89	66-127
1,2-Dibromo-3-chloropropane (DBCP)	16.1	20.0	81	60-122
1,2-Dibromoethane (EDB)	18.2	20.0	91	76-118
1,2-Dichlorobenzene	19.6	20.0	98	81-115
1,2-Dichloroethane (EDC)	20.0	20.0	100	70-117
1,2-Dichloropropane	21.1	20.0	105	79-117
1,3-Dichlorobenzene	20.9	20.0	105	82-116
1,4-Dichlorobenzene	20.4	20.0	102	82-115
2-Butanone (MEK)	98.5	100	99	62-138
2-Hexanone	91.0	100	91	74-127
4-Methyl-2-pentanone (MIBK)	92.1	100	92	77-120
Acetone	90.0	100	90	42-161
Benzene	20.5	20.0	102	80-117
Bromochloromethane	18.7	20.0	94	78-118
Bromodichloromethane	20.6	20.0	103	75-118
Bromoform	18.3	20.0	92	63-121
Bromomethane	17.8	20.0	89	31-153
Carbon Disulfide	114	100	114	72-128
Carbon Tetrachloride	17.7	20.0	88	67-124
Chlorobenzene	19.7	20.0	98	83-118
Chloroethane	19.9	20.0	100	68-132
Chloroform	19.7	20.0	98	77-116
Chloromethane	21.6	20.0	108	60-128
cis-1,2-Dichloroethene	20.9	20.0	104	78-117
cis-1,3-Dichloropropene	19.6	20.0	98	80-119
Cyclohexane	19.8	20.0	99	75-124
Dibromochloromethane	18.4	20.0	92	74-121
Dichlorodifluoromethane	19.8	20.0	99	49-132
Ethylbenzene	20.8	20.0	104	82-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG1200333

	Lab Control Sample JWG1200333-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Isopropylbenzene	24.1	20.0	120 *	78-119
m,p-Xylenes	41.0	40.0	102	79-122
Methyl Acetate	19.1	20.0	95	50-137
Methyl tert-Butyl Ether	19.8	20.0	99	73-118
Methylene Chloride	20.0	20.0	100	75-123
o-Xylene	20.2	20.0	101	80-119
Styrene	19.9	20.0	99	80-121
Tetrachloroethene (PCE)	18.9	20.0	94	75-126
Toluene	20.0	20.0	100	52-152
trans-1,2-Dichloroethene	20.1	20.0	100	75-121
trans-1,3-Dichloropropene	19.3	20.0	96	76-118
Trichloroethene (TCE)	20.3	20.0	101	78-122
Trichlorofluoromethane	18.9	20.0	95	58-134
Trichlorotrifluoroethane	20.0	20.0	100	77-128
Vinyl Chloride	19.6	20.0	98	69-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

	Lab Control Sample JWG1200305-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
1,1,1,2-Tetrachloroethane	18.1	20.0	90	71-124
1,1,1-Trichloroethane (TCA)	17.4	20.0	87	72-131
1,1,2,2-Tetrachloroethane	17.4	20.0	87	51-136
1,1,2-Trichloroethane	18.4	20.0	92	74-113
1,1-Dichloroethane	18.3	20.0	92	74-124
1,1-Dichloroethene	16.0	20.0	80	67-128
1,2,3-Trichlorobenzene	18.9	20.0	94	64-129
1,2,4-Trichlorobenzene	18.7	20.0	93	61-135
1,2-Dibromo-3-chloropropane (DBCP)	17.4	20.0	87	54-129
1,2-Dibromoethane (EDB)	18.2	20.0	91	74-114
1,2-Dichlorobenzene	18.6	20.0	93	74-111
1,2-Dichloroethane (EDC)	17.7	20.0	88	74-120
1,2-Dichloropropane	18.3	20.0	91	77-119
1,3-Dichlorobenzene	18.5	20.0	93	74-114
1,4-Dichlorobenzene	18.7	20.0	93	72-112
2-Butanone (MEK)	87.5	100	87	55-136
2-Hexanone	88.0	100	88	60-127
4-Methyl-2-pentanone (MIBK)	90.1	100	90	64-122
Acetone	83.4	100	83	30-164
Benzene	18.2	20.0	91	76-123
Bromochloromethane	19.0	20.0	95	75-124
Bromodichloromethane	17.1	20.0	85	74-124
Bromoform	16.8	20.0	84	58-126
Bromomethane	18.5	20.0	92	25-175
Carbon Disulfide	110	100	110	62-134
Carbon Tetrachloride	16.0	20.0	80	68-134
Chlorobenzene	19.0	20.0	95	74-116
Chloroethane	17.5	20.0	88	64-131
Chloroform	17.1	20.0	86	75-120
Chloromethane	16.6	20.0	83	59-138
cis-1,2-Dichloroethene	18.4	20.0	92	74-122
cis-1,3-Dichloropropene	18.5	20.0	93	75-115
Cyclohexane	19.3	20.0	96	70-127
Dibromochloromethane	16.7	20.0	83	67-123
Dichlorodifluoromethane	17.1	20.0	86	51-150
Ethylbenzene	18.9	20.0	95	71-122

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: JWG1200305

Analyte Name	Lab Control Sample JWG1200305-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Isopropylbenzene	20.9	20.0	105	67-124
m,p-Xylenes	38.0	40.0	95	71-122
Methyl Acetate	16.6	20.0	83	25-160
Methyl tert-Butyl Ether	18.1	20.0	90	72-121
Methylene Chloride	16.6	20.0	83	60-140
o-Xylene	18.3	20.0	92	71-120
Styrene	19.1	20.0	95	70-122
Tetrachloroethene (PCE)	18.9	20.0	95	69-124
Toluene	18.7	20.0	93	72-118
trans-1,2-Dichloroethene	17.6	20.0	88	71-127
trans-1,3-Dichloropropene	17.6	20.0	88	73-115
Trichloroethene (TCE)	18.4	20.0	92	70-129
Trichlorofluoromethane	17.4	20.0	87	67-129
Trichlorotrifluoroethane	17.7	20.0	89	66-131
Vinyl Chloride	18.9	20.0	95	62-137

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 03/30/2012
Date Analyzed: 03/30/2012
Time Analyzed: 13:10

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120330\0330-06.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200321

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/12	11:42
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 11:20

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-06.D

Level: Low
Extraction Lot: JWG1200325

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/12	09:51
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	04/03/2012
Sample Matrix:	Water	**Date Analyzed:**	04/03/2012
		Time Analyzed:	13:53

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS53
Lab Code:	JWG1200333-4	**File ID:**	J:\MS53\DATA\MS53-120403\0403-07.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200333

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/12	12:25
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/22/2012
Sample Matrix:	Soil	**Date Analyzed:**	03/22/2012
		Time Analyzed:	11:28

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	MS52
Lab Code:	JWG1200305-2	**File ID:**	J:\MS52\DATA\MS52-120322\0322-05.D
Extraction Method:	EPA 5035	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200305

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/12	10:14
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Extracted:**	03/30/2012
Sample Matrix:	Water	**Date Analyzed:**	03/30/2012
		Time Analyzed:	11:42

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	MS53
Lab Code:	JWG1200321-1	**File ID:**	J:\MS53\DATA\MS53-120330\0330-03.D
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B	**Extraction Lot:**	JWG1200321

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/12	13:10
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/12	13:40
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/12	14:10
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/12	14:40
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/12	15:09
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/12	15:39
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/12	16:09
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/12	16:39
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/12	17:09
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/12	17:39
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/12	18:09
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/12	18:39
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/12	19:09
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/12	19:39
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/12	20:09
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/12	20:39
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/12	21:08
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/12	21:38

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/02/2012
Date Analyzed: 04/02/2012
Time Analyzed: 09:51

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120402\0402-03.D

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200325

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/12	11:20
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/12	11:50
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/12	12:20
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/12	12:49
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/12	13:20
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/12	13:50
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/12	14:20
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/12	14:50
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/12	15:19
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/12	15:49
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/12	16:19
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/12	16:49
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/12	17:19
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/12	17:49
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/12	18:19
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/12	18:49
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/12	19:19

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Extracted: 04/03/2012
Date Analyzed: 04/03/2012
Time Analyzed: 12:25

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Extraction Method: EPA 5030B
Analysis Method: 8260B

Instrument ID: MS53
File ID: J:\MS53\DATA\MS53-120403\0403-04.D

Level: Low
Extraction Lot: JWG1200333

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/12	13:53
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/12	14:23
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/12	14:52
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/12	15:22
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/12	15:51
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/12	16:21
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/12	16:50
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/12	17:20
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/12	18:18

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Extracted: 03/22/2012
Date Analyzed: 03/22/2012
Time Analyzed: 10:14

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Instrument ID: MS52
File ID: J:\MS52\DATA\MS52-120322\0322-03.D

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low
Extraction Lot: JWG1200305

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/12	11:28
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/12	18:20
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/12	18:48
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/12	19:17
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/12	19:45

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Raw Data

p:\Stealth\Crystal.rpt\DividerD.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.54**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**0.57**	I	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.62**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**6.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**13**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**0.31**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0032-045.0-03192012
Lab Code: J1201360-001

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.30**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.71**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**8.2**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**83**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**5.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0030-010.0-03192012
Lab Code: J1201360-002

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**0.70**	I	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.46**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0023-065.0-03192012
Lab Code: J1201360-003

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.21**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**59**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0031-045.0-03192012
Lab Code: J1201360-004

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**6.0**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**1.5**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**200**		10	2.2	10	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.49**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**33**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**0.92**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**79**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0020I-045.0-03192012
Lab Code: J1201360-005

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.49**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**0.96**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0039-030.0-03192012
Lab Code: J1201360-006

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.50**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.43**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**92**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	113	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	97	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0038-010.0-03192012
Lab Code: J1201360-007

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: EB01-03192012
Lab Code: J1201360-008

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	106	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	101	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**2.0**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.21**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**76**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0015I-040.0-03192012
Lab Code: J1201360-009

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**27**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.36**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**3.4**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**12**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.2**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**140**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0034-038.5-03202012
Lab Code: J1201360-010

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**150**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	101	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**4.1**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.48**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.3**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**1000**		20	7.2	20	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**1.3**	I	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0019I-040.0-03202012
Lab Code: J1201360-011

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.25**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**18**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**530**		20	4.4	20	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	97	86-112	03/30/12	Acceptable
Toluene-d8	102	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.92**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**9.9**	I	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.42**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**99**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**3.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0033-048.5-03202012
Lab Code: J1201360-012

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**1.4**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**0.52**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**33**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	96	86-112	03/30/12	Acceptable
Toluene-d8	103	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.98**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0021I-045.0-03202012
Lab Code: J1201360-013

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	109	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	99	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**0.26**	I	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.55**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0035-045.0-03202012
Lab Code: J1201360-014

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.23**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.44**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**130**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	96	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.59**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**0.31**	I	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**4.2**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**3.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0028-040.0-03202012
Lab Code: J1201360-015

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**0.55**	I	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**4.1**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**180**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	110	86-113	03/30/12	Acceptable
Dibromofluoromethane	98	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0037-030.0-03202012
Lab Code: J1201360-016

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.25**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**1.2**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.44**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**8.0**	I	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client:	GeoSyntec Consultants	**Service Request:**	J1201360
Project:	KSC CRHE/FR1681	**Date Collected:**	03/20/2012
Sample Matrix:	Water	**Date Received:**	03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name:	CRHE-MW0037-030.0-03202012	**Units:**	ug/L
Lab Code:	J1201360-016	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**0.20**	I	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**19**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	98	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**0.32**	I	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**0.52**	I	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0017I-030.0-03202012
Lab Code: J1201360-017

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**0.27**	I	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**90**		5.0	1.1	5	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	108	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**4.0**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-IW0014I-040.0-03212012
Lab Code: J1201360-018

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**3.6**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	99	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**1.4**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**1.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**420**		10	3.6	10	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0029-045.0-03212012
Lab Code: J1201360-019

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**13**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**140**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**100**		10	2.2	10	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	112	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	100	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**3.5**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**9.1**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**6.4**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**0.41**	I	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**3600**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0026-035.0-03212012
Lab Code: J1201360-020

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**0.22**	I	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.36**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**34**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1000**		100	16	100	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**2000**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	108	86-113	04/02/12	Acceptable
Dibromofluoromethane	95	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**0.51**	I	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**1.5**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0022-065.0-03212012
Lab Code: J1201360-021

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.22**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/03/12	Acceptable
Dibromofluoromethane	99	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**0.96**	I	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**2.7**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**790**		100	36	100	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0027-045.0-03212012
Lab Code: J1201360-022

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**0.22**	I	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**14**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**1.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**1700**		100	22	100	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	11		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0024-010.0-03212012
Lab Code: J1201360-023

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**0.74**	I	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**13**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	107	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**2.2**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**15**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**9700**		200	72	200	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-MW0025-030.0-03212012
Lab Code: J1201360-024

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**0.41**	I	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**75**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**0.60**	I	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**7600**		200	44	200	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	92	86-112	04/03/12	Acceptable
Toluene-d8	98	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/19/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank
Lab Code: J1201360-029

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/02/12	Acceptable
Dibromofluoromethane	97	86-112	04/02/12	Acceptable
Toluene-d8	96	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: 03/20/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CHRE-MW0036-010.0-03202012
Lab Code: J1201360-030

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	97	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	111	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	100	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	ND	U	10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	ND	U	25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	ND	U	50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	ND	U	5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	ND	U	1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	ND	U	2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	ND	U	10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	ND	U	1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	ND	U	5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	ND	U	1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	ND	U	10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	ND	U	20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200321-2

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	ND	UJ	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	ND	U	10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	ND	U	5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	ND	U	1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	ND	U	1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	ND	U	1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	ND	U	20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	ND	U	20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	ND	U	1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	105	86-113	03/30/12	Acceptable
Dibromofluoromethane	100	86-112	03/30/12	Acceptable
Toluene-d8	95	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	ND	U	10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	ND	U	25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	ND	U	50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	ND	U	5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	ND	U	1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	ND	U	2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	ND	U	10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	ND	U	5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	ND	U	1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	ND	U	10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200325-2

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	ND	U	2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	ND	U	10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	ND	U	5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	ND	U	1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	ND	U	1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	ND	U	1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	ND	U	20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	ND	U	1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	105	86-113	04/02/12	Acceptable
Dibromofluoromethane	99	86-112	04/02/12	Acceptable
Toluene-d8	98	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	ND	U	10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	ND	U	10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	ND	U	1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	ND	U	1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	ND	U	1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	ND	U	10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	ND	U	25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	ND	U	25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	ND	U	50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	ND	U	5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	ND	U	1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	ND	U	2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	ND	U	10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	ND	U	1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	ND	U	5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	ND	U	1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	ND	U	1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	ND	U	1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	ND	U	10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	ND	U	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200333-4

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	ND	UJ	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	J(3)
m,p-Xylenes	ND	U	2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	ND	U	10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	ND	U	2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	ND	U	5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	ND	U	1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	ND	U	1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	ND	U	1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	ND	U	1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	ND	U	1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	ND	U	1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	ND	U	1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	ND	U	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	ND	U	20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	ND	U	1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	96	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	103	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**19.8**		1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,1,1-Trichloroethane (TCA)	**19.6**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1,2,2-Tetrachloroethane	**20.3**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
1,1,2-Trichloroethane	**19.6**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethane	**20.5**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,1-Dichloroethene	**23.0**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
1,2,3-Trichlorobenzene	**20.7**		10	0.20	1	03/30/12	03/30/12	JWG1200321	
1,2,4-Trichlorobenzene	**19.2**		10	0.21	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromo-3-chloropropane (DBCP	**16.5**		5.0	2.3	1	03/30/12	03/30/12	JWG1200321	
1,2-Dibromoethane (EDB)	**18.7**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichlorobenzene	**20.5**		1.0	0.50	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloroethane (EDC)	**19.9**		1.0	0.18	1	03/30/12	03/30/12	JWG1200321	
1,2-Dichloropropane	**21.6**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
1,3-Dichlorobenzene	**21.5**		1.0	0.13	1	03/30/12	03/30/12	JWG1200321	
1,4-Dichlorobenzene	**20.9**		1.0	0.10	1	03/30/12	03/30/12	JWG1200321	
2-Butanone (MEK)	**102**		10	3.8	1	03/30/12	03/30/12	JWG1200321	
2-Hexanone	**93.2**		25	2.2	1	03/30/12	03/30/12	JWG1200321	
4-Methyl-2-pentanone (MIBK)	**96.1**		25	0.65	1	03/30/12	03/30/12	JWG1200321	
Acetone	**88.3**		50	5.6	1	03/30/12	03/30/12	JWG1200321	
Benzene	**21.4**		1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Bromochloromethane	**19.6**		5.0	0.27	1	03/30/12	03/30/12	JWG1200321	
Bromodichloromethane	**20.2**		1.0	0.17	1	03/30/12	03/30/12	JWG1200321	
Bromoform	**19.2**		2.0	0.42	1	03/30/12	03/30/12	JWG1200321	
Bromomethane	**19.1**		5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Carbon Disulfide	**119**		10	3.0	1	03/30/12	03/30/12	JWG1200321	
Carbon Tetrachloride	**18.3**		1.0	0.34	1	03/30/12	03/30/12	JWG1200321	
Chlorobenzene	**20.7**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Chloroethane	**21.5**		5.0	0.22	1	03/30/12	03/30/12	JWG1200321	
Chloroform	**19.6**		1.0	0.35	1	03/30/12	03/30/12	JWG1200321	
Chloromethane	**24.8**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
cis-1,2-Dichloroethene	**21.5**		1.0	0.36	1	03/30/12	03/30/12	JWG1200321	
cis-1,3-Dichloropropene	**20.9**		1.0	0.20	1	03/30/12	03/30/12	JWG1200321	
Cyclohexane	**20.3**		10	0.12	1	03/30/12	03/30/12	JWG1200321	
Dibromochloromethane	**19.4**		1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
Dichlorodifluoromethane	**22.1**		20	0.23	1	03/30/12	03/30/12	JWG1200321	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200321-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**21.8**		1.0	0.21	1	03/30/12	03/30/12	JWG1200321	
Isopropylbenzene	**24.0**		1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
m,p-Xylenes	**44.3**		2.0	0.41	1	03/30/12	03/30/12	JWG1200321	
Methyl Acetate	**19.4**		10	0.84	1	03/30/12	03/30/12	JWG1200321	
Methyl tert-Butyl Ether	**20.0**		2.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Methylene Chloride	**20.5**		5.0	0.21	1	03/30/12	03/30/12	JWG1200321	
o-Xylene	**21.3**		1.0	0.14	1	03/30/12	03/30/12	JWG1200321	
Styrene	**20.9**		1.0	0.29	1	03/30/12	03/30/12	JWG1200321	
Tetrachloroethene (PCE)	**20.2**		1.0	0.11	1	03/30/12	03/30/12	JWG1200321	
Toluene	**21.1**		1.0	0.19	1	03/30/12	03/30/12	JWG1200321	
trans-1,2-Dichloroethene	**20.9**		1.0	0.12	1	03/30/12	03/30/12	JWG1200321	
trans-1,3-Dichloropropene	**19.7**		1.0	0.23	1	03/30/12	03/30/12	JWG1200321	
Trichloroethene (TCE)	**20.6**		1.0	0.16	1	03/30/12	03/30/12	JWG1200321	
Trichlorofluoromethane	**20.3**		20	0.22	1	03/30/12	03/30/12	JWG1200321	
Trichlorotrifluoroethane	**21.4**		20	0.20	1	03/30/12	03/30/12	JWG1200321	
Vinyl Chloride	**21.4**		1.0	0.22	1	03/30/12	03/30/12	JWG1200321	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	72-121	03/30/12	Acceptable
4-Bromofluorobenzene	107	86-113	03/30/12	Acceptable
Dibromofluoromethane	99	86-112	03/30/12	Acceptable
Toluene-d8	100	88-115	03/30/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**19.4**		1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,1,1-Trichloroethane (TCA)	**20.2**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1,2,2-Tetrachloroethane	**21.1**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
1,1,2-Trichloroethane	**19.6**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethane	**21.2**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,1-Dichloroethene	**23.6**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
1,2,3-Trichlorobenzene	**19.5**		10	0.20	1	04/02/12	04/02/12	JWG1200325	
1,2,4-Trichlorobenzene	**18.7**		10	0.21	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromo-3-chloropropane (DBCP	**16.7**		5.0	2.3	1	04/02/12	04/02/12	JWG1200325	
1,2-Dibromoethane (EDB)	**19.1**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichlorobenzene	**20.3**		1.0	0.50	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloroethane (EDC)	**19.8**		1.0	0.18	1	04/02/12	04/02/12	JWG1200325	
1,2-Dichloropropane	**21.5**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
1,3-Dichlorobenzene	**21.0**		1.0	0.13	1	04/02/12	04/02/12	JWG1200325	
1,4-Dichlorobenzene	**21.0**		1.0	0.10	1	04/02/12	04/02/12	JWG1200325	
2-Butanone (MEK)	**99.8**		10	3.8	1	04/02/12	04/02/12	JWG1200325	
2-Hexanone	**94.3**		25	2.2	1	04/02/12	04/02/12	JWG1200325	
4-Methyl-2-pentanone (MIBK)	**95.0**		25	0.65	1	04/02/12	04/02/12	JWG1200325	
Acetone	**86.2**		50	5.6	1	04/02/12	04/02/12	JWG1200325	
Benzene	**21.4**		1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Bromochloromethane	**19.4**		5.0	0.27	1	04/02/12	04/02/12	JWG1200325	
Bromodichloromethane	**20.9**		1.0	0.17	1	04/02/12	04/02/12	JWG1200325	
Bromoform	**20.2**		2.0	0.42	1	04/02/12	04/02/12	JWG1200325	
Bromomethane	**19.4**		5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Carbon Disulfide	**121**		10	3.0	1	04/02/12	04/02/12	JWG1200325	
Carbon Tetrachloride	**19.3**		1.0	0.34	1	04/02/12	04/02/12	JWG1200325	
Chlorobenzene	**20.3**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Chloroethane	**22.3**		5.0	0.22	1	04/02/12	04/02/12	JWG1200325	
Chloroform	**20.5**		1.0	0.35	1	04/02/12	04/02/12	JWG1200325	
Chloromethane	**25.2**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
cis-1,2-Dichloroethene	**21.7**		1.0	0.36	1	04/02/12	04/02/12	JWG1200325	
cis-1,3-Dichloropropene	**20.7**		1.0	0.20	1	04/02/12	04/02/12	JWG1200325	
Cyclohexane	**20.8**		10	0.12	1	04/02/12	04/02/12	JWG1200325	
Dibromochloromethane	**19.5**		1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
Dichlorodifluoromethane	**22.3**		20	0.23	1	04/02/12	04/02/12	JWG1200325	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200325-1

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**21.1**		1.0	0.21	1	04/02/12	04/02/12	JWG1200325	
Isopropylbenzene	**23.8**		1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
m,p-Xylenes	**44.3**		2.0	0.41	1	04/02/12	04/02/12	JWG1200325	
Methyl Acetate	**18.4**		10	0.84	1	04/02/12	04/02/12	JWG1200325	
Methyl tert-Butyl Ether	**20.8**		2.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Methylene Chloride	**21.2**		5.0	0.21	1	04/02/12	04/02/12	JWG1200325	
o-Xylene	**21.4**		1.0	0.14	1	04/02/12	04/02/12	JWG1200325	
Styrene	**21.2**		1.0	0.29	1	04/02/12	04/02/12	JWG1200325	
Tetrachloroethene (PCE)	**20.2**		1.0	0.11	1	04/02/12	04/02/12	JWG1200325	
Toluene	**21.1**		1.0	0.19	1	04/02/12	04/02/12	JWG1200325	
trans-1,2-Dichloroethene	**21.2**		1.0	0.12	1	04/02/12	04/02/12	JWG1200325	
trans-1,3-Dichloropropene	**19.9**		1.0	0.23	1	04/02/12	04/02/12	JWG1200325	
Trichloroethene (TCE)	**20.8**		1.0	0.16	1	04/02/12	04/02/12	JWG1200325	
Trichlorofluoromethane	**21.2**		20	0.22	1	04/02/12	04/02/12	JWG1200325	
Trichlorotrifluoroethane	**22.4**		20	0.20	1	04/02/12	04/02/12	JWG1200325	
Vinyl Chloride	**22.0**		1.0	0.22	1	04/02/12	04/02/12	JWG1200325	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	72-121	04/02/12	Acceptable
4-Bromofluorobenzene	104	86-113	04/02/12	Acceptable
Dibromofluoromethane	98	86-112	04/02/12	Acceptable
Toluene-d8	97	88-115	04/02/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**18.9**		1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,1,1-Trichloroethane (TCA)	**19.5**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1,2,2-Tetrachloroethane	**19.6**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
1,1,2-Trichloroethane	**19.4**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethane	**20.4**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,1-Dichloroethene	**22.4**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
1,2,3-Trichlorobenzene	**19.2**		10	0.20	1	04/03/12	04/03/12	JWG1200333	
1,2,4-Trichlorobenzene	**17.9**		10	0.21	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromo-3-chloropropane (DBCP	**16.1**		5.0	2.3	1	04/03/12	04/03/12	JWG1200333	
1,2-Dibromoethane (EDB)	**18.2**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichlorobenzene	**19.6**		1.0	0.50	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloroethane (EDC)	**20.0**		1.0	0.18	1	04/03/12	04/03/12	JWG1200333	
1,2-Dichloropropane	**21.1**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
1,3-Dichlorobenzene	**20.9**		1.0	0.13	1	04/03/12	04/03/12	JWG1200333	
1,4-Dichlorobenzene	**20.4**		1.0	0.10	1	04/03/12	04/03/12	JWG1200333	
2-Butanone (MEK)	**98.5**		10	3.8	1	04/03/12	04/03/12	JWG1200333	
2-Hexanone	**91.0**		25	2.2	1	04/03/12	04/03/12	JWG1200333	
4-Methyl-2-pentanone (MIBK)	**92.1**		25	0.65	1	04/03/12	04/03/12	JWG1200333	
Acetone	**90.0**		50	5.6	1	04/03/12	04/03/12	JWG1200333	
Benzene	**20.5**		1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Bromochloromethane	**18.7**		5.0	0.27	1	04/03/12	04/03/12	JWG1200333	
Bromodichloromethane	**20.6**		1.0	0.17	1	04/03/12	04/03/12	JWG1200333	
Bromoform	**18.3**		2.0	0.42	1	04/03/12	04/03/12	JWG1200333	
Bromomethane	**17.8**		5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Carbon Disulfide	**114**		10	3.0	1	04/03/12	04/03/12	JWG1200333	
Carbon Tetrachloride	**17.7**		1.0	0.34	1	04/03/12	04/03/12	JWG1200333	
Chlorobenzene	**19.7**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Chloroethane	**19.9**		5.0	0.22	1	04/03/12	04/03/12	JWG1200333	
Chloroform	**19.7**		1.0	0.35	1	04/03/12	04/03/12	JWG1200333	
Chloromethane	**21.6**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
cis-1,2-Dichloroethene	**20.9**		1.0	0.36	1	04/03/12	04/03/12	JWG1200333	
cis-1,3-Dichloropropene	**19.6**		1.0	0.20	1	04/03/12	04/03/12	JWG1200333	
Cyclohexane	**19.8**		10	0.12	1	04/03/12	04/03/12	JWG1200333	
Dibromochloromethane	**18.4**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
Dichlorodifluoromethane	**19.8**	I	20	0.23	1	04/03/12	04/03/12	JWG1200333	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Water

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200333-3

Units: ug/L
Basis: NA

Extraction Method: EPA 5030B
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**20.8**		1.0	0.21	1	04/03/12	04/03/12	JWG1200333	
Isopropylbenzene	**24.1**		1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
m,p-Xylenes	**41.0**		2.0	0.41	1	04/03/12	04/03/12	JWG1200333	
Methyl Acetate	**19.1**		10	0.84	1	04/03/12	04/03/12	JWG1200333	
Methyl tert-Butyl Ether	**19.8**		2.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Methylene Chloride	**20.0**		5.0	0.21	1	04/03/12	04/03/12	JWG1200333	
o-Xylene	**20.2**		1.0	0.14	1	04/03/12	04/03/12	JWG1200333	
Styrene	**19.9**		1.0	0.29	1	04/03/12	04/03/12	JWG1200333	
Tetrachloroethene (PCE)	**18.9**		1.0	0.11	1	04/03/12	04/03/12	JWG1200333	
Toluene	**20.0**		1.0	0.19	1	04/03/12	04/03/12	JWG1200333	
trans-1,2-Dichloroethene	**20.1**		1.0	0.12	1	04/03/12	04/03/12	JWG1200333	
trans-1,3-Dichloropropene	**19.3**		1.0	0.23	1	04/03/12	04/03/12	JWG1200333	
Trichloroethene (TCE)	**20.3**		1.0	0.16	1	04/03/12	04/03/12	JWG1200333	
Trichlorofluoromethane	**18.9**	I	20	0.22	1	04/03/12	04/03/12	JWG1200333	
Trichlorotrifluoroethane	**20.0**		20	0.20	1	04/03/12	04/03/12	JWG1200333	
Vinyl Chloride	**19.6**		1.0	0.22	1	04/03/12	04/03/12	JWG1200333	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	72-121	04/03/12	Acceptable
4-Bromofluorobenzene	109	86-113	04/03/12	Acceptable
Dibromofluoromethane	97	86-112	04/03/12	Acceptable
Toluene-d8	96	88-115	04/03/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188849-IDW-03212012
Lab Code: J1201360-025

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	99	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.6	0.24	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.6	0.33	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.6	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.44	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.6	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	28	1.0	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.62	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.65	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	140	3.9	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.6	0.077	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	12	0.46	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.6	0.26	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.6	0.30	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.6	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.28	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.6	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.25	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188797-IDW-03212012
Lab Code: J1201360-026

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.6	0.067	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.6	0.16	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.17	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.6	0.070	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**2.0**	I	56	0.17	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.6	0.082	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.6	0.17	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.6	0.56	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.6	0.19	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.6	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.6	0.20	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	23	0.29	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	23	0.28	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.6	0.27	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	92	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	102	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.1	0.22	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.1	0.30	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.1	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	11	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	11	0.40	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.1	0.11	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	26	0.91	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	11	0.56	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	11	0.59	1	03/22/12	03/22/12	JWG1200305	
Acetone	**22**	I	130	3.6	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.1	0.070	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	11	0.42	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.1	0.24	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.1	0.28	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.1	0.14	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	11	0.26	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.1	0.20	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	110	0.23	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188842-IDW-03212012
Lab Code: J1201360-027

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.1	0.061	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.1	0.15	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	11	0.16	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	11	0.14	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.1	0.064	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	51	0.16	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.1	0.074	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.1	0.16	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.1	0.51	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.1	0.18	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.1	0.12	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.1	0.19	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	21	0.27	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	21	0.26	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.1	0.25	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	90	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	103	64-135	03/22/12	Acceptable
Dibromofluoromethane	91	74-125	03/22/12	Acceptable
Toluene-d8	105	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.8	0.25	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.8	0.34	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.8	0.14	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	12	0.21	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	12	0.45	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.8	0.12	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	29	1.1	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	12	0.64	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	12	0.67	1	03/22/12	03/22/12	JWG1200305	
Acetone	**17**	I	150	4.1	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.8	0.080	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**2.1**	I	12	0.48	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.8	0.27	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.8	0.32	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.8	0.15	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	12	0.29	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.8	0.22	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	120	0.26	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: 03/21/2012
Date Received: 03/22/2012

Volatile Organic Compounds by GC/MS

Sample Name: CRHE-188838-IDW-03212012
Lab Code: J1201360-028

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.8	0.070	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.8	0.17	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	12	0.18	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	12	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.8	0.073	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	58	0.18	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.8	0.085	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.8	0.18	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.8	0.58	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.8	0.20	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.8	0.13	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.8	0.21	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	24	0.30	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	24	0.29	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.8	0.28	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	116	64-135	03/22/12	Acceptable
Dibromofluoromethane	99	74-125	03/22/12	Acceptable
Toluene-d8	108	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	ND	U	5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	ND	U	5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	ND	U	5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	ND	U	10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	ND	U	5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	ND	U	25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	ND	U	10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	ND	U	10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	ND	U	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	ND	U	5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	ND	U	10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	ND	U	5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	ND	U	5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	ND	U	5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	ND	U	10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	ND	U	5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	ND	U	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG1200305-2

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	ND	U	5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	ND	U	5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	ND	U	10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	ND	U	10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	ND	U	5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	ND	U	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	ND	U	5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	ND	U	5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	ND	U	5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	ND	U	5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	ND	U	5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	ND	U	5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	ND	U	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	ND	U	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	ND	U	5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	95	64-135	03/22/12	Acceptable
Dibromofluoromethane	96	74-125	03/22/12	Acceptable
Toluene-d8	102	46-156	03/22/12	Acceptable

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 5035
Analysis Method: 8260B

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1,2-Tetrachloroethane	**18.1**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,1-Trichloroethane (TCA)	**17.4**		5.0	0.21	1	03/22/12	03/22/12	JWG1200305	
1,1,2,2-Tetrachloroethane	**17.4**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
1,1,2-Trichloroethane	**18.4**		5.0	0.29	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethane	**18.3**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,1-Dichloroethene	**16.0**		5.0	0.12	1	03/22/12	03/22/12	JWG1200305	
1,2,3-Trichlorobenzene	**18.9**		10	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2,4-Trichlorobenzene	**18.7**		10	0.18	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromo-3-chloropropane (DBCP	**17.4**		10	0.39	1	03/22/12	03/22/12	JWG1200305	
1,2-Dibromoethane (EDB)	**18.2**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichlorobenzene	**18.6**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloroethane (EDC)	**17.7**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
1,2-Dichloropropane	**18.3**		5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
1,3-Dichlorobenzene	**18.5**		5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
1,4-Dichlorobenzene	**18.7**		5.0	0.10	1	03/22/12	03/22/12	JWG1200305	
2-Butanone (MEK)	**87.5**		25	0.90	1	03/22/12	03/22/12	JWG1200305	
2-Hexanone	**88.0**		10	0.55	1	03/22/12	03/22/12	JWG1200305	
4-Methyl-2-pentanone (MIBK)	**90.1**		10	0.58	1	03/22/12	03/22/12	JWG1200305	
Acetone	**83.4**	I	130	3.5	1	03/22/12	03/22/12	JWG1200305	
Benzene	**18.2**		5.0	0.069	1	03/22/12	03/22/12	JWG1200305	
Bromochloromethane	**19.0**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Bromodichloromethane	**17.1**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Bromoform	**16.8**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Bromomethane	**18.5**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Carbon Disulfide	**110**		10	0.41	1	03/22/12	03/22/12	JWG1200305	
Carbon Tetrachloride	**16.0**		5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
Chlorobenzene	**19.0**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Chloroethane	**17.5**		5.0	0.23	1	03/22/12	03/22/12	JWG1200305	
Chloroform	**17.1**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
Chloromethane	**16.6**		5.0	0.27	1	03/22/12	03/22/12	JWG1200305	
cis-1,2-Dichloroethene	**18.4**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
cis-1,3-Dichloropropene	**18.5**		5.0	0.13	1	03/22/12	03/22/12	JWG1200305	
Cyclohexane	**19.3**		10	0.25	1	03/22/12	03/22/12	JWG1200305	
Dibromochloromethane	**16.7**		5.0	0.19	1	03/22/12	03/22/12	JWG1200305	
Dichlorodifluoromethane	**17.1**	I	100	0.22	1	03/22/12	03/22/12	JWG1200305	

Comments:

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681
Sample Matrix: Soil

Service Request: J1201360
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample
Lab Code: JWG1200305-1

Extraction Method: EPA 5035
Analysis Method: 8260B

Units: ug/Kg
Basis: Dry

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Ethylbenzene	**18.9**		5.0	0.060	1	03/22/12	03/22/12	JWG1200305	
Isopropylbenzene	**20.9**		5.0	0.14	1	03/22/12	03/22/12	JWG1200305	
m,p-Xylenes	**38.0**		10	0.15	1	03/22/12	03/22/12	JWG1200305	
Methyl Acetate	**16.6**		10	0.13	1	03/22/12	03/22/12	JWG1200305	
Methyl tert-Butyl Ether	**18.1**		5.0	0.063	1	03/22/12	03/22/12	JWG1200305	
Methylene Chloride	**16.6**	I	50	0.15	1	03/22/12	03/22/12	JWG1200305	
o-Xylene	**18.3**		5.0	0.073	1	03/22/12	03/22/12	JWG1200305	
Styrene	**19.1**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Tetrachloroethene (PCE)	**18.9**		5.0	0.15	1	03/22/12	03/22/12	JWG1200305	
Toluene	**18.7**		5.0	0.50	1	03/22/12	03/22/12	JWG1200305	
trans-1,2-Dichloroethene	**17.6**		5.0	0.17	1	03/22/12	03/22/12	JWG1200305	
trans-1,3-Dichloropropene	**17.6**		5.0	0.11	1	03/22/12	03/22/12	JWG1200305	
Trichloroethene (TCE)	**18.4**		5.0	0.18	1	03/22/12	03/22/12	JWG1200305	
Trichlorofluoromethane	**17.4**	I	20	0.26	1	03/22/12	03/22/12	JWG1200305	
Trichlorotrifluoroethane	**17.7**	I	20	0.25	1	03/22/12	03/22/12	JWG1200305	
Vinyl Chloride	**18.9**		5.0	0.24	1	03/22/12	03/22/12	JWG1200305	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	94	80-120	03/22/12	Acceptable
4-Bromofluorobenzene	97	64-135	03/22/12	Acceptable
Dibromofluoromethane	98	74-125	03/22/12	Acceptable
Toluene-d8	101	46-156	03/22/12	Acceptable

Comments:

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Standards Data

n:\Stealth\Crystal.rpt\DividerE.rpt

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012
Time Analyzed: 09:17

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS52\DATA\MS52-120322\0322-01.D
Instrument ID: MS52
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200306

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.1	3056	PASS
75	95	30	60	44.7	9053	PASS
95	95	100	100	100.0	20275	PASS
96	95	5	9	6.8	1378	PASS
173	174	0	2	0.4	78	PASS
174	95	50	120	93.5	18957	PASS
175	174	5	9	7.2	1370	PASS
176	174	95	101	98.9	18742	PASS
177	176	5	9	6.5	1226	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200306-2	J:\MS52\DATA\MS52-120322\0322-02.D	03/22/2012	09:45	
Lab Control Sample	JWG1200305-1	J:\MS52\DATA\MS52-120322\0322-03.D	03/22/2012	10:14	
Method Blank	JWG1200305-2	J:\MS52\DATA\MS52-120322\0322-05.D	03/22/2012	11:28	
CRHE-188849-IDW-03212012	J1201360-025	J:\MS52\DATA\MS52-120322\0322-19.D	03/22/2012	18:20	
CRHE-188797-IDW-03212012	J1201360-026	J:\MS52\DATA\MS52-120322\0322-20.D	03/22/2012	18:48	
CRHE-188842-IDW-03212012	J1201360-027	J:\MS52\DATA\MS52-120322\0322-21.D	03/22/2012	19:17	
CRHE-188838-IDW-03212012	J1201360-028	J:\MS52\DATA\MS52-120322\0322-22.D	03/22/2012	19:45	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012
Time Analyzed: 10:42

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120330\0330-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200322

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	15.2	25176	PASS
75	95	30	60	33.7	55912	PASS
95	95	100	100	100.0	166080	PASS
96	95	5	9	6.4	10595	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	90.7	150592	PASS
175	174	5	9	7.5	11247	PASS
176	174	95	101	95.4	143616	PASS
177	176	5	9	6.0	8649	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200322-2	J:\MS53\DATA\MS53-120330\0330-02.D	03/30/2012	11:12	
Lab Control Sample	JWG1200321-1	J:\MS53\DATA\MS53-120330\0330-03.D	03/30/2012	11:42	
Method Blank	JWG1200321-2	J:\MS53\DATA\MS53-120330\0330-06.D	03/30/2012	13:10	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120330\0330-07.D	03/30/2012	13:40	
CRHE-MW0030-010.0-03192012	J1201360-002	J:\MS53\DATA\MS53-120330\0330-08.D	03/30/2012	14:10	
CRHE-MW0023-065.0-03192012	J1201360-003	J:\MS53\DATA\MS53-120330\0330-09.D	03/30/2012	14:40	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120330\0330-10.D	03/30/2012	15:09	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120330\0330-11.D	03/30/2012	15:39	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120330\0330-12.D	03/30/2012	16:09	
CRHE-MW0038-010.0-03192012	J1201360-007	J:\MS53\DATA\MS53-120330\0330-13.D	03/30/2012	16:39	
EB01-03192012	J1201360-008	J:\MS53\DATA\MS53-120330\0330-14.D	03/30/2012	17:09	
CRHE-IW0015I-040.0-03192012	J1201360-009	J:\MS53\DATA\MS53-120330\0330-15.D	03/30/2012	17:39	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120330\0330-16.D	03/30/2012	18:09	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120330\0330-17.D	03/30/2012	18:39	
CRHE-MW0033-048.5-03202012	J1201360-012	J:\MS53\DATA\MS53-120330\0330-18.D	03/30/2012	19:09	
CRHE-IW0021I-045.0-03202012	J1201360-013	J:\MS53\DATA\MS53-120330\0330-19.D	03/30/2012	19:39	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120330\0330-20.D	03/30/2012	20:09	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120330\0330-21.D	03/30/2012	20:39	
CRHE-MW0037-030.0-03202012	J1201360-016	J:\MS53\DATA\MS53-120330\0330-22.D	03/30/2012	21:08	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120330\0330-23.D	03/30/2012	21:38	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012
Time Analyzed: 08:51

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120402\0402-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200326

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.4	37064	PASS
75	95	30	60	35.7	80421	PASS
95	95	100	100	100.0	225429	PASS
96	95	5	9	6.5	14647	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	79.9	180139	PASS
175	174	5	9	7.7	13885	PASS
176	174	95	101	96.2	173248	PASS
177	176	5	9	6.3	10928	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200326-2	J:\MS53\DATA\MS53-120402\0402-02.D	04/02/2012	09:21	
Lab Control Sample	JWG1200325-1	J:\MS53\DATA\MS53-120402\0402-03.D	04/02/2012	09:51	
Method Blank	JWG1200325-2	J:\MS53\DATA\MS53-120402\0402-06.D	04/02/2012	11:20	
Trip Blank	J1201360-029	J:\MS53\DATA\MS53-120402\0402-07.D	04/02/2012	11:50	
CRHE-MW0032-045.0-03192012	J1201360-001	J:\MS53\DATA\MS53-120402\0402-08.D	04/02/2012	12:20	
CRHE-MW0031-045.0-03192012	J1201360-004	J:\MS53\DATA\MS53-120402\0402-09.D	04/02/2012	12:49	
CRHE-IW0020I-045.0-03192012	J1201360-005	J:\MS53\DATA\MS53-120402\0402-10.D	04/02/2012	13:20	
CRHE-MW0039-030.0-03192012	J1201360-006	J:\MS53\DATA\MS53-120402\0402-11.D	04/02/2012	13:50	
CRHE-MW0034-038.5-03202012	J1201360-010	J:\MS53\DATA\MS53-120402\0402-12.D	04/02/2012	14:20	
CRHE-IW0019I-040.0-03202012	J1201360-011	J:\MS53\DATA\MS53-120402\0402-13.D	04/02/2012	14:50	
CRHE-MW0035-045.0-03202012	J1201360-014	J:\MS53\DATA\MS53-120402\0402-14.D	04/02/2012	15:19	
CRHE-MW0028-040.0-03202012	J1201360-015	J:\MS53\DATA\MS53-120402\0402-15.D	04/02/2012	15:49	
CRHE-IW0017I-030.0-03202012	J1201360-017	J:\MS53\DATA\MS53-120402\0402-16.D	04/02/2012	16:19	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120402\0402-17.D	04/02/2012	16:49	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120402\0402-18.D	04/02/2012	17:19	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120402\0402-19.D	04/02/2012	17:49	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120402\0402-20.D	04/02/2012	18:19	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120402\0402-21.D	04/02/2012	18:49	
CRHE-MW0024-010.0-03212012	J1201360-023	J:\MS53\DATA\MS53-120402\0402-22.D	04/02/2012	19:19	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012
Time Analyzed: 10:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: J:\MS53\DATA\MS53-120403\0403-01.D
Instrument ID: MS53
Column:

Analysis Method: 8260B
Analysis Lot: JWG1200334

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.8	34616	PASS
75	95	30	60	36.5	75304	PASS
95	95	100	100	100.0	206165	PASS
96	95	5	9	6.5	13426	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	74.0	152600	PASS
175	174	5	9	8.1	12319	PASS
176	174	95	101	95.9	146363	PASS
177	176	5	9	6.7	9745	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	Q
Continuing Calibration Verification	JWG1200334-2	J:\MS53\DATA\MS53-120403\0403-03.D	04/03/2012	11:53	
Lab Control Sample	JWG1200333-3	J:\MS53\DATA\MS53-120403\0403-04.D	04/03/2012	12:25	
Method Blank	JWG1200333-4	J:\MS53\DATA\MS53-120403\0403-07.D	04/03/2012	13:53	
CRHE-IW0014I-040.0-03212012	J1201360-018	J:\MS53\DATA\MS53-120403\0403-08.D	04/03/2012	14:23	
CRHE-MW0022-065.0-03212012	J1201360-021	J:\MS53\DATA\MS53-120403\0403-09.D	04/03/2012	14:52	
CRHE-MW0029-045.0-03212012	J1201360-019	J:\MS53\DATA\MS53-120403\0403-10.D	04/03/2012	15:22	
CRHE-MW0026-035.0-03212012	J1201360-020	J:\MS53\DATA\MS53-120403\0403-11.D	04/03/2012	15:51	
CRHE-MW0027-045.0-03212012	J1201360-022	J:\MS53\DATA\MS53-120403\0403-12.D	04/03/2012	16:21	
CHRE-MW0036-010.0-03202012	J1201360-030	J:\MS53\DATA\MS53-120403\0403-13.D	04/03/2012	16:50	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-14.D	04/03/2012	17:20	
CRHE-MW0025-030.0-03212012	J1201360-024	J:\MS53\DATA\MS53-120403\0403-16.D	04/03/2012	18:18	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS52\DATA\MS52-120227\0227-04.D	F	J:\MS52\DATA\MS52-120227\0227-09.D
B	J:\MS52\DATA\MS52-120227\0227-05.D	G	J:\MS52\DATA\MS52-120227\0227-10.D
C	J:\MS52\DATA\MS52-120227\0227-06.D	H	J:\MS52\DATA\MS52-120227\0227-11.D
D	J:\MS52\DATA\MS52-120227\0227-07.D	I	J:\MS52\DATA\MS52-120227\0227-12.D
E	J:\MS52\DATA\MS52-120227\0227-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	1.06	B	2.0	1.07	C	5.0	1.09	D	10	1.16	E	20	1.24
	F	50	1.29	G	100	1.41	H	150	1.24	I	200	1.35			
1,1,1-Trichloroethane (TCA)	A	1.0	0.672	B	2.0	0.693	C	5.0	0.706	D	10	0.709	E	20	0.843
	F	50	0.863	G	100	0.927	H	150	0.774	I	200	0.890			
1,1,2,2-Tetrachloroethane	A	1.0	0.996	B	2.0	0.870	C	5.0	0.993	D	10	0.943	E	20	0.984
	F	50	1.03	G	100	1.16	H	150	1.08	I	200	1.03			
1,1,2-Trichloroethane	A	1.0	0.650	B	2.0	0.651	C	5.0	0.608	D	10	0.664	E	20	0.665
	F	50	0.704	G	100	0.758	H	150	0.685	I	200	0.694			
1,1-Dichloroethane	A	1.0	0.636	B	2.0	0.665	C	5.0	0.745	D	10	0.712	E	20	0.795
	F	50	0.787	G	100	0.830	H	150	0.727	I	200	0.812			
1,1-Dichloroethene	A	1.0	0.518	B	2.0	0.546	C	5.0	0.598	D	10	0.564	E	20	0.676
	F	50	0.699	G	100	0.729	H	150	0.616	I	200	0.713			
1,2,3-Trichlorobenzene							C	5.0	1.51	D	10	1.53	E	20	1.65
	F	50	1.68	G	100	1.88	H	150	1.79	I	200	1.79			
1,2,4-Trichlorobenzene							C	5.0	1.78	D	10	1.65	E	20	1.85
	F	50	1.95	G	100	2.14	H	150	2.02	I	200	2.06			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.201	D	10	0.207	E	20	0.215
	F	50	0.224	G	100	0.265	H	150	0.268	I	200	0.246			
1,2-Dibromoethane (EDB)	A	1.0	0.828	B	2.0	0.746	C	5.0	0.831	D	10	0.838	E	20	0.879
	F	50	0.910	G	100	1.02	H	150	0.922	I	200	0.926			
1,2-Dichlorobenzene	A	1.0	2.20	B	2.0	2.23	C	5.0	2.29	D	10	2.27	E	20	2.42
	F	50	2.48	G	100	2.75	H	150	2.54	I	200	2.57			
1,2-Dichloroethane (EDC)	A	1.0	0.451	B	2.0	0.543	C	5.0	0.534	D	10	0.526	E	20	0.550
	F	50	0.559	G	100	0.594	H	150	0.529	I	200	0.541			
1,2-Dichloroethane-d4	A	50	0.259	B	50	0.263	C	50	0.260	D	50	0.257	E	50	0.250
	F	50	0.246	G	50	0.250	H	50	0.238	I	50	0.232			
1,2-Dichloropropane	A	1.0	0.317	B	2.0	0.359	C	5.0	0.385	D	10	0.389	E	20	0.419
	F	50	0.414	G	100	0.449	H	150	0.398	I	200	0.432			
1,3-Dichlorobenzene	A	1.0	2.49	B	2.0	2.45	C	5.0	2.50	D	10	2.50	E	20	2.68
	F	50	2.78	G	100	2.98	H	150	2.75	I	200	2.89			

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† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	2.55	B	2.0	2.49	C	5.0	2.54	D	10	2.51	E	20	2.68
	F	50	2.71	G	100	2.93	H	150	2.66	I	200	2.76			
2-Butanone (MEK)	A	5.0	0.110	B	10	0.121	C	25	0.134	D	50	0.129	E	100	0.122
	F	250	0.126	G	500	0.137	H	750	0.133	I	1000	0.120			
2-Hexanone	A	5.0	0.483	B	10	0.458	C	25	0.508	D	50	0.502	E	100	0.493
	F	250	0.519	G	500	0.587	H	750	0.567	I	1000	0.513			
4-Bromofluorobenzene	A	50	0.871	B	50	0.864	C	50	0.864	D	50	0.885	E	50	0.872
	F	50	0.901	G	50	0.940	H	50	1.01	I	50	1.05			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.687	B	10	0.676	C	25	0.718	D	50	0.734	E	100	0.712
	F	250	0.727	G	500	0.822	H	750	0.779	I	1000	0.708			
Acetone	A	5.0	0.109	B	10	0.114	C	25	0.0910	D	50	0.0862	E	100	0.0760
	F	250	0.0764	G	500	0.0848	H	750	0.0801	I	1000	0.0729			
Benzene	A	1.0	1.64	B	2.0	1.61	C	5.0	1.72	D	10	1.63	E	20	1.81
	F	50	1.84	G	100	1.93	H	150	1.66	I	200	1.84			
Bromochloromethane	A	1.0	0.229	B	2.0	0.251	C	5.0	0.275	D	10	0.266	E	20	0.289
	F	50	0.281	G	100	0.280	H	150	0.254	I	200	0.262			
Bromodichloromethane	A	1.0	0.550	B	2.0	0.529	C	5.0	0.562	D	10	0.550	E	20	0.610
	F	50	0.623	G	100	0.668	H	150	0.599	I	200	0.632			
Bromoform	A	1.0	0.578	B	2.0	0.610	C	5.0	0.604	D	10	0.656	E	20	0.670
	F	50	0.738	G	100	0.832	H	150	0.780	I	200	0.769			
Bromomethane	A	1.0	0.210	B	2.0	0.245	C	5.0	0.239	D	10	0.240	E	20	0.289
	F	50	0.312	G	100	0.316	H	150	0.267	I	200	0.285			
Carbon Disulfide	A	5.0	0.950	B	10	0.925	C	25	0.995	D	50	0.961	E	100	1.11
	F	250	1.12	G	500	1.16	H	750	0.967	I	1000	1.12			
Carbon Tetrachloride	A	1.0	0.499	B	2.0	0.583	C	5.0	0.602	D	10	0.603	E	20	0.705
	F	50	0.755	G	100	0.804	H	150	0.676	I	200	0.775			
Chlorobenzene	A	1.0	2.91	B	2.0	3.04	C	5.0	3.14	D	10	3.18	E	20	3.41
	F	50	3.49	G	100	3.79	H	150	3.26	I	200	3.61			
Chloroethane	A	1.0	0.284	B	2.0	0.292	C	5.0	0.287	D	10	0.265	E	20	0.321
	F	50	0.322	G	100	0.335	H	150	0.285	I	200	0.325			
Chloroform	A	1.0	0.865	B	2.0	0.772	C	5.0	0.799	D	10	0.779	E	20	0.844
	F	50	0.850	G	100	0.904	H	150	0.787	I	200	0.854			
Chloromethane	A	1.0	0.480	B	2.0	0.498	C	5.0	0.522	D	10	0.490	E	20	0.602
	F	50	0.595	G	100	0.630	H	150	0.530	I	200	0.616			
cis-1,2-Dichloroethene	A	1.0	0.521	B	2.0	0.547	C	5.0	0.560	D	10	0.524	E	20	0.600
	F	50	0.608	G	100	0.638	H	150	0.550	I	200	0.612			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	1.59	B	2.0	1.51	C	5.0	1.57	D	10	1.55	E	20	1.74
	F	50	1.82	G	100	1.96	H	150	1.77	I	200	1.89			
Cyclohexane	A	1.0	0.520	B	2.0	0.584	C	5.0	0.628	D	10	0.623	E	20	0.741
	F	50	0.762	G	100	0.817	H	150	0.690	I	200	0.796			
Dibromochloromethane	A	1.0	0.936	B	2.0	0.974	C	5.0	1.04	D	10	1.01	E	20	1.10
	F	50	1.15	G	100	1.28	H	150	1.15	I	200	1.20			
Dibromofluoromethane	A	50	0.243	B	50	0.248	C	50	0.245	D	50	0.244	E	50	0.243
	F	50	0.240	G	50	0.232	H	50	0.237	I	50	0.232			
Dichlorodifluoromethane	A	1.0	0.485	B	2.0	0.502	C	5.0	0.513	D	10	0.488	E	20	0.600
	F	50	0.618	G	100	0.650	H	150	0.531	I	200	0.602			
Ethylbenzene	A	1.0	4.98	B	2.0	4.98	C	5.0	5.31	D	10	5.29	E	20	6.02
	F	50	6.24	G	100	6.74	H	150	5.77	I	200	6.43			
Isopropylbenzene	A	1.0	3.99	B	2.0	4.07	C	5.0	4.52	D	10	4.56	E	20	5.01
	F	50	5.26	G	100	5.79	H	150	5.23	I	200	5.74			
m,p-Xylenes	A	2.0	3.98	B	4.0	3.87	C	10	4.20	D	20	4.25	E	40	4.83
	F	100	4.88	G	200	5.27	H	300	4.48	I	400	4.97			
Methyl Acetate	A	1.0	0.534	B	2.0	0.515	C	5.0	0.528	D	10	0.519	E	20	0.510
	F	50	0.481	G	100	0.537	H	150	0.506	I	200	0.458			
Methyl tert-Butyl Ether	A	1.0	1.04	B	2.0	1.05	C	5.0	1.05	D	10	1.01	E	20	1.05
	F	50	1.10	G	100	1.17	H	150	1.11	I	200	1.10			
Methylene Chloride	A	1.0	0.840	B	2.0	0.616	C	5.0	0.514	D	10	0.453	E	20	0.512
	F	50	0.493	G	100	0.481	H	150	0.436	I	200	0.449			
o-Xylene	A	1.0	4.45	B	2.0	4.11	C	5.0	4.44	D	10	4.38	E	20	4.91
	F	50	5.04	G	100	5.37	H	150	4.67	I	200	5.10			
Styrene	A	1.0	2.66	B	2.0	3.13	C	5.0	3.22	D	10	3.25	E	20	3.70
	F	50	3.83	G	100	4.21	H	150	3.67	I	200	3.99			
Tetrachloroethene (PCE)	A	1.0	0.932	B	2.0	0.963	C	5.0	1.08	D	10	1.05	E	20	1.21
	F	50	1.23	G	100	1.32	H	150	1.11	I	200	1.27			
Toluene	A	1.0	4.59	B	2.0	4.55	C	5.0	4.69	D	10	4.68	E	20	5.27
	F	50	5.33	G	100	5.73	H	150	4.91	I	200	5.46			
Toluene-d8	A	50	2.51	B	50	2.46	C	50	2.44	D	50	2.46	E	50	2.50
	F	50	2.47	G	50	2.52	H	50	2.45	I	50	2.52			
trans-1,2-Dichloroethene	A	1.0	0.580	B	2.0	0.560	C	5.0	0.577	D	10	0.557	E	20	0.650
	F	50	0.639	G	100	0.679	H	150	0.577	I	200	0.661			
trans-1,3-Dichloropropene	A	1.0	1.40	B	2.0	1.47	C	5.0	1.44	D	10	1.45	E	20	1.54
	F	50	1.64	G	100	1.85	H	150	1.67	I	200	1.74			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.417	B	2.0	0.448	C	5.0	0.503	D	10	0.491	E	20	0.550
	F	50	0.557	G	100	0.591	H	150	0.512	I	200	0.578			
Trichlorofluoromethane	A	1.0	0.748	B	2.0	0.708	C	5.0	0.742	D	10	0.720	E	20	0.879
	F	50	0.881	G	100	0.938	H	150	0.779	I	200	0.893			
Trichlorotrifluoroethane	A	1.0	0.330	B	2.0	0.332	C	5.0	0.376	D	10	0.372	E	20	0.452
	F	50	0.462	G	100	0.471	H	150	0.393	I	200	0.453			
Vinyl Chloride	A	1.0	0.369	B	2.0	0.439	C	5.0	0.448	D	10	0.423	E	20	0.496
	F	50	0.465	G	100	0.461	H	150	0.365	I	200	0.444			

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Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	10.3		≤ 15	1.21		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.3		≤ 15	0.786		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	8.1		≤ 15	1.01		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	6.2		≤ 15	0.675		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.0		≤ 15	0.745		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	12.4		≤ 15	0.629		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	8.1		≤ 15	1.69		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	9.0		≤ 15	1.92		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	11.8		≤ 15	0.232		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	8.9		≤ 15	0.878		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	2.42		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	7.1		≤ 15	0.536		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	4.2		≤ 15	0.251		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	10.1		≤ 15	0.396		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	7.3		≤ 15	2.67		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	5.3		≤ 15	2.65		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	6.7		≤ 15	0.126		0.01
2-Hexanone	MS	AverageRF	% RSD	7.8		≤ 15	0.514		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.6		≤ 15	0.918		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.3		≤ 15	0.729		0.01
Acetone	MS	Linear	R2	0.994		≥ 0.99	0.0878		0.01
Benzene	MS	AverageRF	% RSD	6.7		≤ 15	1.74		0.01
Bromochloromethane	MS	AverageRF	% RSD	7.0		≤ 15	0.265		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.8		≤ 15	0.592		0.01
† Bromoform	MS	AverageRF	% RSD	12.9		≤ 15	0.693		0.1
Bromomethane	MS	AverageRF	% RSD	13.5		≤ 15	0.267		0.01
Carbon Disulfide	MS	AverageRF	% RSD	8.9		≤ 15	1.03		0.01
Carbon Tetrachloride	MS	Linear	R2	0.993		≥ 0.99	0.667		0.01
† Chlorobenzene	MS	AverageRF	% RSD	8.6		≤ 15	3.32		0.3
Chloroethane	MS	AverageRF	% RSD	8.1		≤ 15	0.302		0.01
‡ Chloroform	MS	AverageRF	% RSD	5.5		≤ 15	0.828		0.01
† Chloromethane	MS	AverageRF	% RSD	10.7		≤ 15	0.551		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	7.3		≤ 15	0.573		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	9.5		≤ 15	1.71		0.01
Cyclohexane	MS	AverageRF	% RSD	14.9		≤ 15	0.684		0.01
Dibromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	1.09		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	2.3		≤ 15	0.241		
Dichlorodifluoromethane	MS	AverageRF	% RSD	11.4		≤ 15	0.554		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	11.2		≤ 15	5.75		0.01
Isopropylbenzene	MS	AverageRF	% RSD	13.5		≤ 15	4.91		0.01
m,p-Xylenes	MS	AverageRF	% RSD	10.7		≤ 15	4.53		0.01
Methyl Acetate	MS	AverageRF	% RSD	5.1		≤ 15	0.510		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	4.6		≤ 15	1.08		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2756
Instrument ID: MS52

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	Linear	R2	0.998		≥ 0.99	0.533		0.01
o-Xylene	MS	AverageRF	% RSD	8.7		≤ 15	4.72		0.01
Styrene	MS	AverageRF	% RSD	13.9		≤ 15	3.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	12.1		≤ 15	1.13		0.01
‡ Toluene	MS	AverageRF	% RSD	8.6		≤ 15	5.02		0.01
Toluene-d8	SURR	AverageRF	% RSD	1.2		≤ 15	2.48		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	7.8		≤ 15	0.609		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	9.7		≤ 15	1.58		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.516		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	10.8		≤ 15	0.810		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.9		≤ 15	0.405		0.01
‡ Vinyl Chloride	MS	AverageRF	% RSD	10.0		≤ 15	0.434		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

File ID: J:\MS52\DATA\MS52-120227\0227-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	1.21	1.25	3	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.786	0.827	5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	1.01	1.01	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.675	0.713	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	22	0.745	0.819	10	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.629	0.681	8	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	1.69	1.66	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	1.92	1.85	-4	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.232	0.212	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.878	0.906	3	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	2.42	2.47	2	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.536	0.540	1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.396	0.425	7	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	20	2.67	2.72	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	2.65	2.73	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.126	0.122	-3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.514	0.515	0	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.729	0.730	0	NA	± 30 %	AverageRF
Acetone	100	93	0.0878	0.0775	NA	-7	± 30 %	Linear
Benzene	20	21	1.74	1.85	6	NA	± 30 %	AverageRF
Bromochloromethane	20	22	0.265	0.292	10	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.592	0.612	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.693	0.665	-4	NA	± 30 %	AverageRF
Bromomethane	20	19	0.267	0.258	-3	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	1.03	1.12	8	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.667	0.697	NA	-3	± 30 %	Linear
Chlorobenzene	20	21	3.32	3.51	6	NA	± 30 %	AverageRF
Chloroethane	20	21	0.302	0.321	7	NA	± 30 %	AverageRF
Chloroform	20	20	0.828	0.846	2	NA	± 30 %	AverageRF
Chloromethane	20	21	0.551	0.569	3	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.573	0.605	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	1.71	1.79	5	NA	± 30 %	AverageRF
Cyclohexane	20	22	0.684	0.743	9	NA	± 30 %	AverageRF
Dibromochloromethane	20	20	1.09	1.10	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.554	0.589	6	NA	± 30 %	AverageRF
Ethylbenzene	20	21	5.75	6.10	6	NA	± 30 %	AverageRF
Isopropylbenzene	20	21	4.91	5.23	7	NA	± 30 %	AverageRF
m,p-Xylenes	40	43	4.53	4.90	8	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.510	0.512	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	1.08	1.10	2	NA	± 30 %	AverageRF
Methylene Chloride	20	26	0.533	0.618	NA	29	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 02/27/2012
Date Analyzed: 02/27/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2756
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	21	4.72	4.99	6	NA	± 30 %	AverageRF
Styrene	20	22	3.52	3.83	9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	21	1.13	1.21	7	NA	± 30 %	AverageRF
Toluene	20	21	5.02	5.34	6	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.609	0.653	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	1.58	1.57	0	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.516	0.579	12	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.810	0.857	6	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.405	0.435	7	NA	± 30 %	AverageRF
Vinyl Chloride	20	23	0.434	0.493	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Level ID	File ID	Level ID	File ID
A	J:\MS53\DATA\MS53-120307\0307-03.D	F	J:\MS53\DATA\MS53-120307\0307-09.D
B	J:\MS53\DATA\MS53-120307\0307-04.D	G	J:\MS53\DATA\MS53-120307\0307-10.D
C	J:\MS53\DATA\MS53-120307\0307-05.D	H	J:\MS53\DATA\MS53-120307\0307-11.D
D	J:\MS53\DATA\MS53-120307\0307-06.D	I	J:\MS53\DATA\MS53-120307\0307-15.D
E	J:\MS53\DATA\MS53-120307\0307-08.D		

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,1,1,2-Tetrachloroethane	A	1.0	0.493	B	2.0	0.424	C	5.0	0.487	D	10	0.500	E	50	0.524
	F	100	0.512	G	150	0.473	H	200	0.463	I	20	0.523			
1,1,1-Trichloroethane (TCA)	A	1.0	0.186	B	2.0	0.173	C	5.0	0.216	D	10	0.207	E	50	0.253
	F	100	0.246	G	150	0.241	H	200	0.241	I	20	0.227			
1,1,2,2-Tetrachloroethane	A	1.0	0.721	B	2.0	0.736	C	5.0	0.779	D	10	0.812	E	50	0.777
	F	100	0.734	G	150	0.659	H	200	0.569	I	20	0.763			
1,1,2-Trichloroethane	A	1.0	0.374	B	2.0	0.341	C	5.0	0.369	D	10	0.374	E	50	0.363
	F	100	0.380	G	150	0.348	H	200	0.339	I	20	0.381			
1,1-Dichloroethane	A	1.0	0.341	B	2.0	0.323	C	5.0	0.390	D	10	0.382	E	50	0.427
	F	100	0.421	G	150	0.422	H	200	0.411	I	20	0.406			
1,1-Dichloroethene	A	1.0	0.218	B	2.0	0.195	C	5.0	0.247	D	10	0.227	E	50	0.266
	F	100	0.240	G	150	0.219	H	200	0.206	I	20	0.257			
1,2,3-Trichlorobenzene										D	10	0.342	E	50	0.343
	F	100	0.373	G	150	0.354	H	200	0.354	I	20	0.337			
1,2,4-Trichlorobenzene										D	10	0.485	E	50	0.533
	F	100	0.564	G	150	0.552	H	200	0.552	I	20	0.505			
1,2-Dibromo-3-chloropropane (DBCP							C	5.0	0.0716	D	10	0.0723	E	50	0.0750
	F	100	0.0823	G	150	0.0817	H	200	0.0823	I	20	0.0665			
1,2-Dibromoethane (EDB)	A	1.0	0.375	B	2.0	0.367	C	5.0	0.413	D	10	0.423	E	50	0.415
	F	100	0.425	G	150	0.406	H	200	0.382	I	20	0.421			
1,2-Dichlorobenzene	A	1.0	1.10	B	2.0	0.997	C	5.0	1.15	D	10	1.09	E	50	1.12
	F	100	1.12	G	150	1.03	H	200	1.01	I	20	1.16			
1,2-Dichloroethane (EDC)	A	1.0	0.136	B	2.0	0.117	C	5.0	0.138	D	10	0.137	E	50	0.147
	F	100	0.145	G	150	0.145	H	200	0.143	I	20	0.141			
1,2-Dichloroethane-d4	A	50	0.147	B	50	0.149	C	50	0.145	D	50	0.148	E	50	0.146
	F	50	0.144	G	50	0.146	H	50	0.141	I	50	0.141			
1,2-Dichloropropane	A	1.0	0.207	B	2.0	0.201	C	5.0	0.223	D	10	0.224	E	50	0.245
	F	100	0.240	G	150	0.233	H	200	0.230	I	20	0.234			
1,3-Dichlorobenzene	A	1.0	1.27	B	2.0	1.14	C	5.0	1.33	D	10	1.26	E	50	1.26
	F	100	1.16	G	150	1.06	H	200	0.987	I	20	1.31			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
1,4-Dichlorobenzene	A	1.0	1.21	B	2.0	1.11	C	5.0	1.28	D	10	1.25	E	50	1.31
	F	100	1.24	G	150	1.18	H	200	1.09	I	20	1.36			
2-Butanone (MEK)	A	5.0	0.00960	B	10	0.0116	C	25	0.0117	D	50	0.0121	E	250	0.0134
	F	500	0.0126	G	750	0.0128	H	1000	0.0131	I	100	0.0122			
2-Hexanone				B	10	0.293	C	25	0.288	D	50	0.283	E	250	0.263
	F	500	0.273	G	750	0.250	H	1000	0.238	I	100	0.278			
4-Bromofluorobenzene	A	50	1.02	B	50	0.970	C	50	0.993	D	50	0.952	E	50	0.907
	F	50	0.857	G	50	0.815	H	50	0.793	I	50	0.954			
4-Methyl-2-pentanone (MIBK)	A	5.0	0.422	B	10	0.421	C	25	0.431	D	50	0.435	E	250	0.405
	F	500	0.401	G	750	0.380	H	1000	0.364	I	100	0.428			
Acetone	A	5.0	0.0341	B	10	0.0312	C	25	0.0313	D	50	0.0309	E	250	0.0284
	F	500	0.0286	G	750	0.0280	H	1000	0.0265	I	100	0.0274			
Benzene	A	1.0	0.820	B	2.0	0.794	C	5.0	0.904	D	10	0.885	E	50	0.990
	F	100	0.952	G	150	0.913	H	200	0.875	I	20	0.955			
Bromochloromethane	A	1.0	0.114	B	2.0	0.111	C	5.0	0.133	D	10	0.136	E	50	0.146
	F	100	0.145	G	150	0.148	H	200	0.145	I	20	0.142			
Bromodichloromethane	A	1.0	0.207	B	2.0	0.202	C	5.0	0.227	D	10	0.231	E	50	0.252
	F	100	0.246	G	150	0.244	H	200	0.233	I	20	0.241			
Bromoform	A	1.0	0.172	B	2.0	0.166	C	5.0	0.209	D	10	0.224	E	50	0.249
	F	100	0.246	G	150	0.236	H	200	0.224	I	20	0.232			
Bromomethane	A	1.0	0.172	B	2.0	0.160	C	5.0	0.182	D	10	0.184	E	50	0.217
	F	100	0.173	G	150	0.157	H	200	0.147	I	20	0.190			
Carbon Disulfide	A	5.0	0.669	B	10	0.622	C	25	0.755	D	50	0.708	E	250	0.796
	F	500	0.685	G	750	0.613	H	1000	0.560	I	100	0.787			
Carbon Tetrachloride	A	1.0	0.132	B	2.0	0.133	C	5.0	0.168	D	10	0.158	E	50	0.198
	F	100	0.195	G	150	0.190	H	200	0.193	I	20	0.178			
Chlorobenzene	A	1.0	1.44	B	2.0	1.39	C	5.0	1.57	D	10	1.54	E	50	1.56
	F	100	1.52	G	150	1.37	H	200	1.29	I	20	1.64			
Chloroethane	A	1.0	0.154	B	2.0	0.143	C	5.0	0.161	D	10	0.167	E	50	0.188
	F	100	0.162	G	150	0.150	H	200	0.143	I	20	0.178			
Chloroform	A	1.0	0.323	B	2.0	0.293	C	5.0	0.343	D	10	0.328	E	50	0.370
	F	100	0.368	G	150	0.370	H	200	0.357	I	20	0.350			
Chloromethane	A	1.0	0.306	B	2.0	0.286	C	5.0	0.324	D	10	0.314	E	50	0.389
	F	100	0.331	G	150	0.310	H	200	0.296	I	20	0.350			
cis-1,2-Dichloroethene	A	1.0	0.246	B	2.0	0.242	C	5.0	0.291	D	10	0.285	E	50	0.315
	F	100	0.310	G	150	0.308	H	200	0.301	I	20	0.307			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
cis-1,3-Dichloropropene	A	1.0	0.867	B	2.0	0.838	C	5.0	0.964	D	10	0.976	E	50	0.970
	F	100	1.01	G	150	0.946	H	200	0.861	I	20	0.984			
Cyclohexane	A	1.0	0.302	B	2.0	0.267	C	5.0	0.366	D	10	0.311	E	50	0.419
	F	100	0.412	G	150	0.404	H	200	0.413	I	20	0.389			
Dibromochloromethane	A	1.0	0.442	B	2.0	0.394	C	5.0	0.445	D	10	0.461	E	50	0.462
	F	100	0.473	G	150	0.437	H	200	0.412	I	20	0.476			
Dibromofluoromethane	A	50	0.255	B	50	0.258	C	50	0.256	D	50	0.256	E	50	0.258
	F	50	0.260	G	50	0.261	H	50	0.255	I	50	0.256			
Dichlorodifluoromethane	A	1.0	0.110	B	2.0	0.138	C	5.0	0.165	D	10	0.155	E	50	0.201
	F	100	0.180	G	150	0.172	H	200	0.171	I	20	0.181			
Ethylbenzene	A	1.0	2.47	B	2.0	2.16	C	5.0	2.70	D	10	2.58	E	50	2.63
	F	100	2.56	G	150	2.23	H	200	2.03	I	20	2.78			
Isopropylbenzene	A	1.0	2.13	B	2.0	1.81	C	5.0	2.30	D	10	2.11	E	50	2.35
	F	100	2.21	G	150	2.04	H	200	1.94	I	20	2.39			
m,p-Xylenes	A	2.0	1.84	B	4.0	1.65	C	10	1.94	D	20	1.91	E	100	1.86
	F	200	1.67	G	300	1.42	H	400	1.26	I	40	2.04			
Methyl Acetate	A	1.0	0.314	B	2.0	0.285	C	5.0	0.285	D	10	0.294	E	50	0.296
	F	100	0.291	G	150	0.285	H	200	0.270	I	20	0.287			
Methyl tert-Butyl Ether	A	1.0	0.310	B	2.0	0.317	C	5.0	0.363	D	10	0.361	E	50	0.381
	F	100	0.376	G	150	0.374	H	200	0.377	I	20	0.359			
Methylene Chloride	A	1.0	0.228	B	2.0	0.210	C	5.0	0.255	D	10	0.243	E	50	0.278
	F	100	0.266	G	150	0.259	H	200	0.256	I	20	0.264			
o-Xylene	A	1.0	1.82	B	2.0	1.66	C	5.0	2.00	D	10	1.97	E	50	1.96
	F	100	1.85	G	150	1.63	H	200	1.43	I	20	2.02			
Styrene	A	1.0	1.51	B	2.0	1.37	C	5.0	1.63	D	10	1.63	E	50	1.61
	F	100	1.58	G	150	1.37	H	200	1.28	I	20	1.68			
Tetrachloroethene (PCE)	A	1.0	0.392	B	2.0	0.356	C	5.0	0.466	D	10	0.436	E	50	0.492
	F	100	0.500	G	150	0.461	H	200	0.441	I	20	0.511			
Toluene	A	1.0	2.37	B	2.0	2.18	C	5.0	2.58	D	10	2.43	E	50	2.54
	F	100	2.47	G	150	2.16	H	200	1.99	I	20	2.73			
Toluene-d8	A	50	2.41	B	50	2.43	C	50	2.45	D	50	2.48	E	50	2.35
	F	50	2.44	G	50	2.41	H	50	2.34	I	50	2.48			
trans-1,2-Dichloroethene	A	1.0	0.258	B	2.0	0.248	C	5.0	0.305	D	10	0.285	E	50	0.345
	F	100	0.338	G	150	0.333	H	200	0.326	I	20	0.324			
trans-1,3-Dichloropropene	A	1.0	0.620	B	2.0	0.584	C	5.0	0.677	D	10	0.694	E	50	0.674
	F	100	0.714	G	150	0.664	H	200	0.623	I	20	0.697			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Trichloroethene (TCE)	A	1.0	0.181	B	2.0	0.172	C	5.0	0.213	D	10	0.204	E	50	0.233
	F	100	0.228	G	150	0.221	H	200	0.209	I	20	0.224			
Trichlorofluoromethane				B	2.0	0.137	C	5.0	0.190	D	10	0.176	E	50	0.225
	F	100	0.216	G	150	0.209	H	200	0.206	I	20	0.205			
Trichlorotrifluoroethane	A	1.0	0.154	B	2.0	0.138	C	5.0	0.181	D	10	0.175	E	50	0.223
	F	100	0.197	G	150	0.186	H	200	0.187	I	20	0.202			
Vinyl Chloride	A	1.0	0.208	B	2.0	0.198	C	5.0	0.254	D	10	0.242	E	50	0.277
										I	20	0.272			

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,1,1,2-Tetrachloroethane	MS	AverageRF	% RSD	6.6		≤ 15	0.489		0.01
1,1,1-Trichloroethane (TCA)	MS	AverageRF	% RSD	12.6		≤ 15	0.221		0.01
† 1,1,2,2-Tetrachloroethane	MS	AverageRF	% RSD	10.1		≤ 15	0.728		0.3
1,1,2-Trichloroethane	MS	AverageRF	% RSD	4.6		≤ 15	0.363		0.01
† 1,1-Dichloroethane	MS	AverageRF	% RSD	9.5		≤ 15	0.391		0.1
‡ 1,1-Dichloroethene	MS	AverageRF	% RSD	10.3		≤ 15	0.230		0.01
1,2,3-Trichlorobenzene	MS	AverageRF	% RSD	3.7		≤ 15	0.351		0.01
1,2,4-Trichlorobenzene	MS	AverageRF	% RSD	5.8		≤ 15	0.532		0.01
1,2-Dibromo-3-chloropropane (DBCP)	MS	AverageRF	% RSD	8.3		≤ 15	0.0760		0.01
1,2-Dibromoethane (EDB)	MS	AverageRF	% RSD	5.6		≤ 15	0.403		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	5.5		≤ 15	1.09		0.01
1,2-Dichloroethane (EDC)	MS	AverageRF	% RSD	6.6		≤ 15	0.139		0.01
1,2-Dichloroethane-d4	SURR	AverageRF	% RSD	1.8		≤ 15	0.145		
‡ 1,2-Dichloropropane	MS	AverageRF	% RSD	6.4		≤ 15	0.227		0.01
1,3-Dichlorobenzene	MS	AverageRF	% RSD	9.8		≤ 15	1.20		0.01
1,4-Dichlorobenzene	MS	AverageRF	% RSD	7.2		≤ 15	1.22		0.01
2-Butanone (MEK)	MS	AverageRF	% RSD	9.2		≤ 15	0.0121		0.01
2-Hexanone	MS	AverageRF	% RSD	7.0		≤ 15	0.271		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	8.7		≤ 15	0.917		
4-Methyl-2-pentanone (MIBK)	MS	AverageRF	% RSD	6.0		≤ 15	0.410		0.01
Acetone	MS	AverageRF	% RSD	8.2		≤ 15	0.0296		0.01
Benzene	MS	AverageRF	% RSD	7.1		≤ 15	0.899		0.01
Bromochloromethane	MS	AverageRF	% RSD	10.2		≤ 15	0.135		0.01
Bromodichloromethane	MS	AverageRF	% RSD	7.5		≤ 15	0.231		0.01
† Bromoform	MS	AverageRF	% RSD	13.8		≤ 15	0.218		0.1
Bromomethane	MS	AverageRF	% RSD	11.8		≤ 15	0.176		0.01
Carbon Disulfide	MS	AverageRF	% RSD	11.8		≤ 15	0.689		0.01
Carbon Tetrachloride	MS	Linear	R2	1.000		≥ 0.99	0.172		0.01
† Chlorobenzene	MS	AverageRF	% RSD	7.7		≤ 15	1.48		0.3
Chloroethane	MS	AverageRF	% RSD	9.6		≤ 15	0.161		0.01
‡ Chloroform	MS	AverageRF	% RSD	7.5		≤ 15	0.345		0.01
† Chloromethane	MS	AverageRF	% RSD	9.7		≤ 15	0.323		0.1
cis-1,2-Dichloroethene	MS	AverageRF	% RSD	9.5		≤ 15	0.290		0.01
cis-1,3-Dichloropropene	MS	AverageRF	% RSD	6.7		≤ 15	0.935		0.01
Cyclohexane	MS	Linear	R2	1.000		≥ 0.99	0.365		0.01
Dibromochloromethane	MS	AverageRF	% RSD	6.2		≤ 15	0.445		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	0.8		≤ 15	0.257		
Dichlorodifluoromethane	MS	Linear	R2	0.998		≥ 0.99	0.164		0.01
‡ Ethylbenzene	MS	AverageRF	% RSD	10.6		≤ 15	2.46		0.01
Isopropylbenzene	MS	AverageRF	% RSD	9.0		≤ 15	2.14		0.01
m,p-Xylenes	MS	AverageRF	% RSD	14.9		≤ 15	1.73		0.01
Methyl Acetate	MS	AverageRF	% RSD	4.1		≤ 15	0.290		0.01
Methyl tert-Butyl Ether	MS	AverageRF	% RSD	7.3		≤ 15	0.358		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

ICAL ID: CAL2752
Instrument ID: MS53

Column: MS

Analyte Name	Compound Type	Calibration Evaluation					RRF Evaluation		
		Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Methylene Chloride	MS	AverageRF	% RSD	8.3		≤ 15	0.251		0.01
o-Xylene	MS	AverageRF	% RSD	11.2		≤ 15	1.81		0.01
Styrene	MS	AverageRF	% RSD	9.4		≤ 15	1.52		0.01
Tetrachloroethene (PCE)	MS	AverageRF	% RSD	11.3		≤ 15	0.451		0.01
‡ Toluene	MS	AverageRF	% RSD	9.9		≤ 15	2.38		0.01
Toluene-d8	SURR	AverageRF	% RSD	2.1		≤ 15	2.42		
trans-1,2-Dichloroethene	MS	AverageRF	% RSD	11.5		≤ 15	0.307		0.01
trans-1,3-Dichloropropene	MS	AverageRF	% RSD	6.5		≤ 15	0.661		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	10.0		≤ 15	0.209		0.01
Trichlorofluoromethane	MS	AverageRF	% RSD	14.3		≤ 15	0.196		0.01
Trichlorotrifluoroethane	MS	AverageRF	% RSD	13.8		≤ 15	0.183		0.01
‡ Vinyl Chloride	MS	Linear	R2	1.000		≥ 0.99	0.242		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

File ID: J:\MS53\DATA\MS53-120307\0307-16.D

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	21	0.489	0.523	7	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	21	0.221	0.234	6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	22	0.728	0.785	8	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	21	0.363	0.386	6	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.391	0.419	7	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.230	0.261	13	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	20	20	0.351	0.349	0	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	20	0.532	0.523	-2	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	19	0.0760	0.0717	-6	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	21	0.403	0.427	6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	22	1.09	1.19	10	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	21	0.139	0.142	3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.227	0.240	6	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	20	22	1.20	1.35	12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	22	1.22	1.33	9	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	110	0.0121	0.0131	8	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.271	0.280	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	110	0.410	0.432	5	NA	± 30 %	AverageRF
Acetone	100	93	0.0296	0.0276	-7	NA	± 30 %	AverageRF
Benzene	20	22	0.899	0.979	9	NA	± 30 %	AverageRF
Bromochloromethane	20	21	0.135	0.143	6	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.231	0.244	5	NA	± 30 %	AverageRF
Bromoform	20	22	0.218	0.239	10	NA	± 30 %	AverageRF
Bromomethane	20	22	0.176	0.192	9	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.689	0.795	15	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	19	0.172	0.181	NA	-3	± 30 %	Linear
Chlorobenzene	20	22	1.48	1.62	10	NA	± 30 %	AverageRF
Chloroethane	20	22	0.161	0.175	9	NA	± 30 %	AverageRF
Chloroform	20	21	0.345	0.364	6	NA	± 30 %	AverageRF
Chloromethane	20	22	0.323	0.351	9	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.290	0.306	6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	21	0.935	0.996	6	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.365	0.398	NA	0	± 30 %	Linear
Dibromochloromethane	20	21	0.445	0.478	7	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.164	0.164	NA	-11	± 30 %	Linear
Ethylbenzene	20	23	2.46	2.81	14	NA	± 30 %	AverageRF
Isopropylbenzene	20	23	2.14	2.41	13	NA	± 30 %	AverageRF
m,p-Xylenes	40	47	1.73	2.03	17	NA	± 30 %	AverageRF
Methyl Acetate	20	21	0.290	0.301	4	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.358	0.363	2	NA	± 30 %	AverageRF
Methylene Chloride	20	22	0.251	0.271	8	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound ‡ CCC Compound

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
ICAL Date: 03/07/2012
Date Analyzed: 03/07/2012

Second Source Calibration Verification
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL ID: CAL2752
Units: ug/L

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	20	23	1.81	2.07	14	NA	± 30 %	AverageRF
Styrene	20	22	1.52	1.70	12	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	23	0.451	0.515	14	NA	± 30 %	AverageRF
Toluene	20	23	2.38	2.71	14	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	21	0.307	0.328	7	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	21	0.661	0.696	5	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	22	0.209	0.229	10	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	21	0.196	0.206	5	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	22	0.183	0.199	9	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.242	0.264	NA	-2	± 30 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

File ID: J:\MS52\DATA\MS52-120322\0322-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	1.21	1.10	-9	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	18	0.01	0.786	0.715	-9	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	1.01	0.998	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.675	0.656	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	19	0.1	0.745	0.708	-5	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	17	0.01	0.629	0.526	-16	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	1.69	1.63	-4	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	19	0.01	1.92	1.86	-3	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	18	0.01	0.232	0.213	-8	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.878	0.824	-6	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	18	0.01	2.42	2.22	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	18	0.01	0.536	0.491	-8	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	50		0.251	0.251	0	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	19	0.01	0.396	0.378	-4	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	19	0.01	2.67	2.49	-7	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	18	0.01	2.65	2.44	-8	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.126	0.129	3	NA	± 30 %	AverageRF
2-Hexanone	100	100	0.01	0.514	0.521	1	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	47		0.918	0.861	-6	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	100	0.01	0.729	0.733	1	NA	± 30 %	AverageRF
Acetone	100	98	0.01	0.0878	0.0782	NA	-2	± 30 %	Linear
Benzene	20	19	0.01	1.74	1.63	-6	NA	± 30 %	AverageRF
Bromochloromethane	20	20	0.01	0.265	0.260	-2	NA	± 30 %	AverageRF
Bromodichloromethane	20	18	0.01	0.592	0.536	-9	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.693	0.631	-9	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.267	0.247	-7	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	1.03	1.20	16	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.667	0.591	NA	-17	± 30 %	Linear
Chlorobenzene	20	19	0.3	3.32	3.19	-4	NA	± 30 %	AverageRF
Chloroethane	20	19	0.01	0.302	0.288	-4	NA	± 30 %	AverageRF
Chloroform	20	18	0.01	0.828	0.729	-12	NA	± 20 %	AverageRF
Chloromethane	20	17	0.1	0.551	0.480	-13	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	19	0.01	0.573	0.541	-6	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	19	0.01	1.71	1.63	-5	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.684	0.674	-2	NA	± 30 %	AverageRF
Dibromochloromethane	20	18	0.01	1.09	0.995	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.241	0.238	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	18	0.01	0.554	0.489	-12	NA	± 30 %	AverageRF
Ethylbenzene	20	19	0.01	5.75	5.57	-3	NA	± 20 %	AverageRF
Isopropylbenzene	20	21	0.01	4.91	5.09	4	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/22/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 02/27/2012
ICAL ID: CAL2756
Analysis Lot: JWG1200306
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	39	0.01	4.53	4.39	-3	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.510	0.509	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	1.08	1.05	-2	NA	± 30 %	AverageRF
Methylene Chloride	20	17	0.01	0.533	0.395	NA	-17	± 30 %	Linear
o-Xylene	20	19	0.01	4.72	4.49	-5	NA	± 30 %	AverageRF
Styrene	20	20	0.01	3.52	3.47	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	20	0.01	1.13	1.12	-1	NA	± 30 %	AverageRF
Toluene	20	19	0.01	5.02	4.81	-4	NA	± 20 %	AverageRF
Toluene-d8	50	51		2.48	2.51	1	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	18	0.01	0.609	0.556	-9	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	18	0.01	1.58	1.46	-8	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	19	0.01	0.516	0.490	-5	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	18	0.01	0.810	0.722	-11	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	17	0.01	0.405	0.353	-13	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.434	0.432	-1	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

File ID: J:\MS53\DATA\MS53-120330\0330-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.459	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.208	-6	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.719	-1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.398	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.256	11	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	18	0.01	0.351	0.323	-8	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.468	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	15	0.01	0.0760	0.0577	-24	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.373	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	20	0.01	1.09	1.08	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.136	-2	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	49		0.145	0.144	-1	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.238	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.22	2	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	21	0.01	1.22	1.26	3	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0127	5	NA	± 30 %	AverageRF
2-Hexanone	100	94	0.01	0.271	0.254	-6	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	54		0.917	0.993	8	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.384	-6	NA	± 30 %	AverageRF
Acetone	100	93	0.01	0.0296	0.0274	-7	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.927	3	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.132	-3	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.228	-2	NA	± 30 %	AverageRF
Bromoform	20	18	0.1	0.218	0.201	-8	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.162	-8	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	17	0.01	0.172	0.159	NA	-15	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.160	0	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.338	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.378	17	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.296	2	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.934	0	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.387	NA	-2	± 30 %	Linear
Dibromochloromethane	20	19	0.01	0.445	0.411	-8	NA	± 30 %	AverageRF
Dibromofluoromethane	50	49		0.257	0.254	-1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.194	NA	6	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.49	1	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.50	17	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 03/30/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200322
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.290	0	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.357	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.252	0	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.80	-1	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.50	-1	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.428	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.33	-2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.299	-2	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	19	0.01	0.661	0.637	-4	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.207	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.183	0	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.278	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

File ID: J:\MS53\DATA\MS53-120402\0402-02.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	19	0.01	0.489	0.460	-6	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.212	-4	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.729	0	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.352	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	20	0.1	0.391	0.399	2	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	23	0.01	0.230	0.263	14	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.470	-12	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0614	-19	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	18	0.01	0.403	0.371	-8	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.02	-6	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	19	0.01	0.139	0.132	-5	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	47		0.145	0.137	-6	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.237	5	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	20	0.01	1.20	1.21	1	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.21	-1	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	97	0.01	0.0121	0.0118	-3	NA	± 30 %	AverageRF
2-Hexanone	100	92	0.01	0.271	0.249	-8	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	53		0.917	0.967	5	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.386	-6	NA	± 30 %	AverageRF
Acetone	100	88	0.01	0.0296	0.0261	-12	NA	± 30 %	AverageRF
Benzene	20	21	0.01	0.899	0.965	7	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.129	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	20	0.01	0.231	0.234	1	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.211	-3	NA	± 30 %	AverageRF
Bromomethane	20	19	0.01	0.176	0.165	-6	NA	± 30 %	AverageRF
Carbon Disulfide	100	120	0.01	0.689	0.804	17	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.170	NA	-9	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.46	-1	NA	± 30 %	AverageRF
Chloroethane	20	20	0.01	0.161	0.163	1	NA	± 30 %	AverageRF
Chloroform	20	20	0.01	0.345	0.336	-2	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.375	16	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	21	0.01	0.290	0.305	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.946	1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.407	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	50		0.257	0.259	1	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.191	NA	5	± 30 %	Linear
Ethylbenzene	20	19	0.01	2.46	2.36	-4	NA	± 20 %	AverageRF
Isopropylbenzene	20	23	0.01	2.14	2.43	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/02/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200326
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.76	2	NA	± 30 %	AverageRF
Methyl Acetate	20	20	0.01	0.290	0.283	-2	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.360	1	NA	± 30 %	AverageRF
Methylene Chloride	20	21	0.01	0.251	0.261	4	NA	± 30 %	AverageRF
o-Xylene	20	21	0.01	1.81	1.87	3	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.52	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.429	-5	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.42	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.32	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.309	1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.653	-1	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.208	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.194	-1	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	20	0.01	0.183	0.186	2	NA	± 30 %	AverageRF
Vinyl Chloride	20	20	0.01	0.242	0.276	NA	2	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

File ID: J:\MS53\DATA\MS53-120403\0403-03.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	20	18	0.01	0.489	0.451	-8	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	20	19	0.01	0.221	0.210	-5	NA	± 30 %	AverageRF
1,1,2,2-Tetrachloroethane	20	20	0.3	0.728	0.734	1	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	20	19	0.01	0.363	0.354	-3	NA	± 30 %	AverageRF
1,1-Dichloroethane	20	21	0.1	0.391	0.401	3	NA	± 30 %	AverageRF
1,1-Dichloroethene	20	22	0.01	0.230	0.251	9	NA	± 20 %	AverageRF
1,2,3-Trichlorobenzene	20	19	0.01	0.351	0.329	-6	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	20	18	0.01	0.532	0.481	-10	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane (DBCP	20	16	0.01	0.0760	0.0607	-20	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	20	19	0.01	0.403	0.375	-7	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	20	19	0.01	1.09	1.05	-3	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	20	20	0.01	0.139	0.137	-1	NA	± 30 %	AverageRF
1,2-Dichloroethane-d4	50	48		0.145	0.140	-3	NA	± 30 %	AverageRF
1,2-Dichloropropane	20	21	0.01	0.227	0.233	3	NA	± 20 %	AverageRF
1,3-Dichlorobenzene	20	21	0.01	1.20	1.23	3	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	20	20	0.01	1.22	1.20	-2	NA	± 30 %	AverageRF
2-Butanone (MEK)	100	100	0.01	0.0121	0.0124	2	NA	± 30 %	AverageRF
2-Hexanone	100	93	0.01	0.271	0.252	-7	NA	± 30 %	AverageRF
4-Bromofluorobenzene	50	51		0.917	0.942	3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	100	94	0.01	0.410	0.385	-6	NA	± 30 %	AverageRF
Acetone	100	92	0.01	0.0296	0.0273	-8	NA	± 30 %	AverageRF
Benzene	20	20	0.01	0.899	0.915	2	NA	± 30 %	AverageRF
Bromochloromethane	20	19	0.01	0.135	0.128	-5	NA	± 30 %	AverageRF
Bromodichloromethane	20	21	0.01	0.231	0.238	3	NA	± 30 %	AverageRF
Bromoform	20	19	0.1	0.218	0.202	-7	NA	± 30 %	AverageRF
Bromomethane	20	18	0.01	0.176	0.157	-11	NA	± 30 %	AverageRF
Carbon Disulfide	100	110	0.01	0.689	0.769	12	NA	± 30 %	AverageRF
Carbon Tetrachloride	20	18	0.01	0.172	0.166	NA	-11	± 30 %	Linear
Chlorobenzene	20	20	0.3	1.48	1.45	-2	NA	± 30 %	AverageRF
Chloroethane	20	21	0.01	0.161	0.165	3	NA	± 30 %	AverageRF
Chloroform	20	19	0.01	0.345	0.329	-5	NA	± 20 %	AverageRF
Chloromethane	20	23	0.1	0.323	0.369	14	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	20	20	0.01	0.290	0.289	0	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	20	20	0.01	0.935	0.922	-1	NA	± 30 %	AverageRF
Cyclohexane	20	20	0.01	0.365	0.392	NA	-1	± 30 %	Linear
Dibromochloromethane	20	18	0.01	0.445	0.406	-9	NA	± 30 %	AverageRF
Dibromofluoromethane	50	48		0.257	0.248	-4	NA	± 30 %	AverageRF
Dichlorodifluoromethane	20	21	0.01	0.164	0.189	NA	4	± 30 %	Linear
Ethylbenzene	20	20	0.01	2.46	2.51	2	NA	± 20 %	AverageRF
Isopropylbenzene	20	22	0.01	2.14	2.38	11	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Client: GeoSyntec Consultants
Project: KSC CRHE/FR1681

Service Request: J1201360
Date Analyzed: 04/03/2012

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

ICAL Type: Internal Standard
Analysis Method: 8260B

ICAL Date: 03/07/2012
ICAL ID: CAL2752
Analysis Lot: JWG1200334
Units: ug/L

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
m,p-Xylenes	40	41	0.01	1.73	1.78	3	NA	± 30 %	AverageRF
Methyl Acetate	20	19	0.01	0.290	0.272	-6	NA	± 30 %	AverageRF
Methyl tert-Butyl Ether	20	20	0.01	0.358	0.358	0	NA	± 30 %	AverageRF
Methylene Chloride	20	20	0.01	0.251	0.246	-2	NA	± 30 %	AverageRF
o-Xylene	20	20	0.01	1.81	1.82	0	NA	± 30 %	AverageRF
Styrene	20	20	0.01	1.52	1.51	0	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	20	19	0.01	0.451	0.420	-7	NA	± 30 %	AverageRF
Toluene	20	20	0.01	2.38	2.44	2	NA	± 20 %	AverageRF
Toluene-d8	50	48		2.42	2.31	-4	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	20	20	0.01	0.307	0.304	-1	NA	± 30 %	AverageRF
trans-1,3-Dichloropropene	20	20	0.01	0.661	0.651	-2	NA	± 30 %	AverageRF
Trichloroethene (TCE)	20	20	0.01	0.209	0.206	-1	NA	± 30 %	AverageRF
Trichlorofluoromethane	20	20	0.01	0.196	0.191	-2	NA	± 30 %	AverageRF
Trichlorotrifluoroethane	20	21	0.01	0.183	0.192	5	NA	± 30 %	AverageRF
Vinyl Chloride	20	21	0.01	0.242	0.280	NA	3	± 20 %	Linear

Results flagged with an asterisk (*) indicate values outside control criteria.

† **SPCC Compound** ‡ **CCC Compound**

Organic Analysis:
Volatile Organic Compounds by GC/MS

Validation Package

Sample Prep and Screen Data

p:\Stealth\Crystal.rpt\DividerF.rpt

Preparation Information

Group ID:	JWG1200305	**Prep Method:**	EPA 5035	**Prep Date:**	03/22/12 09:17
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
J1201360-025	CRHE-188849-IDW-0321201	8260B	SOIL	5.9300g	5mL	84
J1201360-026	CRHE-188797-IDW-0321201	8260B	SOIL	5.1200g	5mL	88
J1201360-027	CRHE-188842-IDW-0321201	8260B	SOIL	5.9600g	5mL	83
J1201360-028	CRHE-188838-IDW-0321201	8260B	SOIL	5.3500g	5mL	81
JWG1200305-1	Lab Control Sample	8260B	SOIL	5.00g	5ml	100
JWG1200305-2	Method Blank	8260B	SOIL	5.00g	5ml	100

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-025	264703	42346	1uL			
J1201360-026	264704	42346	1uL			
J1201360-027	264705	42346	1uL			
J1201360-028	264706	42346	1uL			
JWG1200305-1	264707	42346	1uL	42183/40123	20uL	
JWG1200305-2	264708	42346	1uL			

Comments: _____

Started By: SAllen Assisted By: _____ Training Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Preparation Information

Group ID:	JWG1200321	**Prep Method:**	EPA 5030B	**Prep Date:**	03/30/12 10:42
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-001	CRHE-MW0032-045.0-0319:	8260B	WATER	10ml	10ml
J1201360-002	CRHE-MW0030-010.0-0319:	8260B	WATER	10ml	10ml
J1201360-003	CRHE-MW0023-065.0-0319:	8260B	WATER	10ml	10ml
J1201360-004	CRHE-MW0031-045.0-0319:	8260B	WATER	10ml	10ml
J1201360-005	CRHE-IW0020I-045.0-03192	8260B	WATER	10ml	10ml
J1201360-006	CRHE-MW0039-030.0-0319:	8260B	WATER	10ml	10ml
J1201360-007	CRHE-MW0038-010.0-0319:	8260B	WATER	10ml	10ml
J1201360-008	EB01-03192012	8260B	WATER	10ml	10ml
J1201360-009	CRHE-IW0015I-040.0-03192	8260B	WATER	10ml	10ml
J1201360-010	CRHE-MW0034-038.5-0320:	8260B	WATER	10ml	10ml
J1201360-011	CRHE-IW0019I-040.0-03202	8260B	WATER	10ml	10ml
J1201360-012	CRHE-MW0033-048.5-0320:	8260B	WATER	10ml	10ml
J1201360-013	CRHE-IW0021I-045.0-03202	8260B	WATER	10ml	10ml
J1201360-014	CRHE-MW0035-045.0-0320:	8260B	WATER	10ml	10ml
J1201360-015	CRHE-MW0028-040.0-0320:	8260B	WATER	10ml	10ml
J1201360-016	CRHE-MW0037-030.0-0320:	8260B	WATER	10ml	10ml
J1201360-017	CRHE-IW0017I-030.0-03202	8260B	WATER	10ml	10ml
JWG1200321-1	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200321-2	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-001	264821	40951	1uL			
J1201360-002	264822	40951	1uL			
J1201360-003	264823	40951	1uL			
J1201360-004	264824	40951	1uL			
J1201360-005	264825	40951	1uL			
J1201360-006	264826	40951	1uL			
J1201360-007	264827	40951	1uL			
J1201360-008	264828	40951	1uL			
J1201360-009	264829	40951	1uL			
J1201360-010	264830	40951	1uL			
J1201360-011	264831	40951	1uL			
J1201360-012	264832	40951	1uL			
J1201360-013	264833	40951	1uL			
J1201360-014	264834	40951	1uL			
J1201360-015	264835	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes No

Received By: _____ Date: _____

Group ID:	JWG1200321	**Prep Method:**	EPA 5030B	**Prep Date:**	03/30/12 10:42
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-016	264836	40951	1uL			
J1201360-017	264837	40951	1uL			
JWG1200321-1	264838	40951	1uL	42546/40123	20uL	
JWG1200321-2	264839	40951	1uL			

Comments

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date:

Received By: Date: Extracts Examined Yes No

Preparation Information

Group ID:	JWG1200325	**Prep Method:**	EPA 5030B	**Prep Date:**	04/02/12 08:51
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-001	CRHE-MW0032-045.0-0319	8260B	WATER	10ml	10ml
J1201360-004	CRHE-MW0031-045.0-0319	8260B	WATER	10ml	10ml
J1201360-005	CRHE-IW0020I-045.0-03192	8260B	WATER	10ml	10ml
J1201360-006	CRHE-MW0039-030.0-0319	8260B	WATER	10ml	10ml
J1201360-010	CRHE-MW0034-038.5-0320	8260B	WATER	10ml	10ml
J1201360-011	CRHE-IW0019I-040.0-03202	8260B	WATER	10ml	10ml
J1201360-014	CRHE-MW0035-045.0-0320	8260B	WATER	10ml	10ml
J1201360-015	CRHE-MW0028-040.0-0320	8260B	WATER	10ml	10ml
J1201360-017	CRHE-IW0017I-030.0-03202	8260B	WATER	10ml	10ml
J1201360-018	CRHE-IW0014I-040.0-03212	8260B	WATER	10ml	10ml
J1201360-019	CRHE-MW0029-045.0-0321	8260B	WATER	10ml	10ml
J1201360-020	CRHE-MW0026-035.0-0321	8260B	WATER	10ml	10ml
J1201360-021	CRHE-MW0022-065.0-0321	8260B	WATER	10ml	10ml
J1201360-022	CRHE-MW0027-045.0-0321	8260B	WATER	10ml	10ml
J1201360-023	CRHE-MW0024-010.0-0321	8260B	WATER	10ml	10ml
J1201360-029	Trip Blank	8260B	WATER	10ml	10ml
JWG1200325-1	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200325-2	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-001	264845	40951	1uL			
J1201360-004	264846	40951	1uL			
J1201360-005	264847	40951	1uL			
J1201360-006	264848	40951	1uL			
J1201360-010	264849	40951	1uL			
J1201360-011	264850	40951	1uL			
J1201360-014	264851	40951	1uL			
J1201360-015	264852	40951	1uL			
J1201360-017	264853	40951	1uL			
J1201360-018	264854	40951	1uL			
J1201360-019	264855	40951	1uL			
J1201360-020	264856	40951	1uL			
J1201360-021	264857	40951	1uL			
J1201360-022	264858	40951	1uL			
J1201360-023	264843	40951	1uL			
J1201360-029	264844	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes / No

Completed By: SAllen Assisted By: _____ Yes / No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes / No

Received By: _____ Date: _____

Group ID:	JWG1200325	**Prep Method:**	EPA 5030B	**Prep Date:**	04/02/12 08:51
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
JWG1200325-1	264859	40951	1uL	42546/42796	20uL	
JWG1200325-2	264860	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

Preparation Information

Group ID:	JWG1200333	**Prep Method:**	EPA 5030B	**Prep Date:**	04/03/12 10:53
Department:	VolatileOrganic				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
J1201360-018	CRHE-IW0014I-040.0-03212	8260B	WATER	10ml	10ml
J1201360-019	CRHE-MW0029-045.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-020	CRHE-MW0026-035.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-021	CRHE-MW0022-065.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-022	CRHE-MW0027-045.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-024	CRHE-MW0025-030.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-024	CRHE-MW0025-030.0-0321[illegible]	8260B	WATER	10ml	10ml
J1201360-030	CHRE-MW0036-010.0-0320[illegible]	8260B	WATER	10ml	10ml
J1201388-017	GAIN-FW-22B-02-032112	8260B	WATER	10ml	10ml
J1201388-018	GAIN-FW-22B-01-032112	8260B	WATER	10ml	10ml
J1201388-019	GAIN-FB-03-032112	8260B	WATER	10ml	10ml
J1201388-020	GAIN-EB-03-032112	8260B	WATER	10ml	10ml
J1201388-021	GAIN-Trip Blank-032112	8260B	WATER	10ml	10ml
J1201388-023	GAIN-FW-29B-032112	8260B	WATER	10ml	10ml
J1201388-024	GAIN-FW-99-032112	8260B	WATER	10ml	10ml
J1201388-025	GAIN-FW-29C-032112	8260B	WATER	10ml	10ml
JWG1200333-1	Matrix Spike	8260B	WATER	10ml	10ml
JWG1200333-2	Duplicate Matrix Spike	8260B	WATER	10ml	10ml
JWG1200333-3	Lab Control Sample	8260B	WATER	10ml	10ml
JWG1200333-4	Method Blank	8260B	WATER	10ml	10ml

Lab Code	Parent Lab Code	Comments
JWG1200333-1	J1201388-023	
JWG1200333-2	J1201388-023	

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201360-018	264883	40951	1uL			
J1201360-019	264884	40951	1uL			
J1201360-020	264885	40951	1uL			
J1201360-021	264886	40951	1uL			
J1201360-022	264887	40951	1uL			
J1201360-024	264881	40951	1uL			
J1201360-024	264888	40951	1uL			
J1201360-030	264882	40951	1uL			
J1201388-017	264889	40951	1uL			
J1201388-018	264890	40951	1uL			

Comments:

Started By: SAllen Assisted By: _____ Training: Yes No

Completed By: SAllen Assisted By: _____ Yes No

Reviewed By: _____ Date: _____ Storage: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined: Yes No

Received By: _____ Date: _____

Group ID:	JWG1200333	**Prep Method:**	EPA 5030B	**Prep Date:**	04/03/12 10:53
Department:	VolatileOrganic				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
J1201388-019	264891	40951	1uL			
J1201388-020	264892	40951	1uL			
J1201388-021	264893	40951	1uL			
J1201388-023	264894	40951	1uL			
J1201388-024	264895	40951	1uL			
J1201388-025	264896	40951	1uL			
JWG1200333-1	264897	40951	1uL	42873/42796	20uL	
JWG1200333-2	264898	40951	1uL	42873/42796	20uL	
JWG1200333-3	264899	40951	1uL	42873/42796	20uL	
JWG1200333-4	264900	40951	1uL			

Comments:

Started By: SAllen Assisted By: Training Yes No

Completed By: SAllen Assisted By: Yes No

Reviewed By: Date: Storage:

Chain of Custody

Relinquished By: Date: Extracts Examined

Received By: Date: Yes No

Southeast ACCUTEST LABORATORIES

12/26/13

Technical Report for

Geosyntec Consultants

Contractors Rd Heavy Equipment Area; KSC, FL

FR1681

Accutest Job Number: FA10890

Sampling Date: 12/11/13

Report to:

Geosyntec Consultants
316 S Baylen St Suite 201
Pensacola, FL 32502
jjohnson@geosyntec.com; elawson@geosyntec.com

ATTN: Jill Johnson

Total number of pages in report: **64**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Andrea Colby 407-425-6700

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Sample Summary

Geosyntec Consultants

Job No: FA10890

Contractors Rd Heavy Equipment Area; KSC, FL
Project No: FR1681

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA10890-1	12/11/13	18:00	JB	12/13/13	AQ	Ground Water	CRHE-MW0025-030.0-20131211
FA10890-2	12/11/13	15:04	JB	12/13/13	AQ	Ground Water	CRHE-MW0035-045.0-20131211
FA10890-3	12/11/13	16:02	JB	12/13/13	AQ	Ground Water	CRHE-IW0019I-040.0-20131211
FA10890-4	12/11/13	16:49	JB	12/13/13	AQ	Ground Water	CRHE-MW0029-045.0-20131211

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Geosyntec Consultants **Job No:** FA10890

Site: Contractors Rd Heavy Equipment Area; KSC, FL **Report Date** 12/26/2013 5:25:38 PM

4 Samples were collected on 12/11/2013 and were received at Accutest SE on 12/13/2013 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA10890. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VI249

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA10790-6MS, FA10790-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, Methyl Tert Butyl Ether are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,1,2-Trichloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

FA10890-1 for Carbon disulfide: Associated ICV outside control limits.

FA10890-1 for Methylene chloride: Suspected laboratory contaminant.

FA10890-2 for Carbon disulfide: Associated ICV outside control limits.

FA10890-3 for Carbon disulfide: Associated ICV outside control limits.

FA10890-3 for Methylene chloride: Suspected laboratory contaminant.

FA10890-4 for Carbon disulfide: Associated ICV outside control limits.

FA10890-4 for Methylene chloride: Suspected laboratory contaminant.

Matrix: AQ **Batch ID:** VI251

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA10935-5MS, FA10935-5MSD were used as the QC samples indicated.

Volatiles by GCMS By Method SW846 8260B BY SIM

Matrix: AQ **Batch ID:** VZ858

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA10934-3MS, FA10934-3MSD were used as the QC samples indicated.

Volatiles by GC By Method RSKSOP-147/175

Matrix: AQ **Batch ID:** GXY2532

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA10834-3MS, FA10834-5DUP were used as the QC samples indicated.

Matrix: AQ **Batch ID:** GXY2533

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA10933-2DUP, FA10933-2MS were used as the QC samples indicated.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP23125

All samples were prepped within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA10701-1MS, FA10701-1MSD were used as the QC samples for Sulfate.
FA10890-1 for Sulfate: Dilution required due to matrix interference.
FA10890-2 for Sulfate: Dilution required due to matrix interference.
FA10890-4 for Sulfate: Dilution required due to matrix interference.

Wet Chemistry By Method SM20 4500S F

Matrix: AQ **Batch ID:** GN59331

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA10834-1MS, FA10834-1MSD were used as the QC samples for Sulfide.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____

Lovelie Metzgar, QA Officer (signature on file)

Date: December 26, 2013

Summary of Hits

Job Number: FA10890
Account: Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL
Collected: 12/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
FA10890-1	**CRHE-MW0025-030.0-20131211**					
cis-1,2-Dichloroethylene		8900	200	47	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		97.6 I	200	46	ug/l	SW846 8260B
Methylene chloride [a]		576 I	1000	400	ug/l	SW846 8260B
Vinyl chloride		13100	200	88	ug/l	SW846 8260B
1,4-Dioxane		14.5	2.0	1.0	ug/l	SW846 8260B BY SIM
Methane		1180	5.0	1.6	ug/l	RSKSOP-147/175
Ethane		382	1.0	0.32	ug/l	RSKSOP-147/175
Ethene		672	1.0	0.43	ug/l	RSKSOP-147/175
Sulfate [b]		7.8 I	10	3.0	mg/l	EPA 300/SW846 9056A
FA10890-2	**CRHE-MW0035-045.0-20131211**					
1,1-Dichloroethane		0.35 I	1.0	0.21	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.83 I	1.0	0.24	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		2.3	1.0	0.23	ug/l	SW846 8260B
Toluene		0.24 I	1.0	0.20	ug/l	SW846 8260B
Vinyl chloride		477	10	4.4	ug/l	SW846 8260B
1,4-Dioxane		3.9	2.0	1.0	ug/l	SW846 8260B BY SIM
Methane		1260	5.0	1.6	ug/l	RSKSOP-147/175
Ethane		6.4	1.0	0.32	ug/l	RSKSOP-147/175
Ethene		331	1.0	0.43	ug/l	RSKSOP-147/175
Sulfide		0.55 I	0.77	0.22	mg/l	SM20 4500S F
FA10890-3	**CRHE-IW0019I-040.0-20131211**					
Chlorobenzene		1.0 I	5.0	1.0	ug/l	SW846 8260B
1,1-Dichloroethylene		1.9 I	5.0	1.0	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		510	20	4.7	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		10.8	5.0	1.1	ug/l	SW846 8260B
Methylene chloride [a]		18.0 I	25	10	ug/l	SW846 8260B
Vinyl chloride		360	5.0	2.2	ug/l	SW846 8260B
Methane		1870	2.0	0.64	ug/l	RSKSOP-147/175
Ethene		2.6	1.0	0.43	ug/l	RSKSOP-147/175
Sulfate		15.3	10	3.0	mg/l	EPA 300/SW846 9056A
FA10890-4	**CRHE-MW0029-045.0-20131211**					
cis-1,2-Dichloroethylene		1650	20	4.7	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		31.8	20	4.6	ug/l	SW846 8260B
Methylene chloride [a]		61.8 I	100	40	ug/l	SW846 8260B
Trichloroethylene		398	20	6.3	ug/l	SW846 8260B
Vinyl chloride		339	20	8.8	ug/l	SW846 8260B
1,4-Dioxane		1.3 I	2.0	1.0	ug/l	SW846 8260B BY SIM

Summary of Hits

Job Number: FA10890
Account: Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL
Collected: 12/11/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
Methane		1260	5.0	1.6	ug/l	RSKSOP-147/175
Ethane		15.5	1.0	0.32	ug/l	RSKSOP-147/175
Ethene		31.5	1.0	0.43	ug/l	RSKSOP-147/175
Sulfide		0.48 I	0.77	0.22	mg/l	SM20 4500S F

(a) Suspected laboratory contaminant.
(b) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CRHE-MW0025-030.0-20131211
Lab Sample ID: FA10890-1
Matrix: AQ - Ground Water
Method: SW846 8260B BY SIM
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z21397.D	1	12/18/13	KW	n/a	n/a	VZ858
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
123-91-1	1,4-Dioxane	14.5	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0025-030.0-20131211
Lab Sample ID: FA10890-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I16708.D	200	12/23/13	WV	n/a	n/a	VI249
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	2000 U	5000	2000	ug/l	
107-02-8	Acrolein	1400 U	4000	1400	ug/l	
107-13-1	Acrylonitrile	400 U	2000	400	ug/l	
71-43-2	Benzene	42 U	200	42	ug/l	
108-86-1	Bromobenzene	44 U	200	44	ug/l	
74-97-5	Bromochloromethane	45 U	200	45	ug/l	
75-27-4	Bromodichloromethane	40 U	200	40	ug/l	
75-25-2	Bromoform	69 U	200	69	ug/l	
104-51-8	n-Butylbenzene	40 U	200	40	ug/l	
135-98-8	sec-Butylbenzene	42 U	200	42	ug/l	
98-06-6	tert-Butylbenzene	59 U	200	59	ug/l	
108-90-7	Chlorobenzene	40 U	200	40	ug/l	
75-00-3	Chloroethane	100 U	400	100	ug/l	
67-66-3	Chloroform	53 U	200	53	ug/l	
95-49-8	o-Chlorotoluene	43 U	200	43	ug/l	
106-43-4	p-Chlorotoluene	40 U	200	40	ug/l	
110-75-8	2-Chloroethyl vinyl ether	250 U	1000	250	ug/l	
75-15-0	Carbon disulfide [a]	99 U	400	99	ug/l	
56-23-5	Carbon tetrachloride	63 U	200	63	ug/l	
75-34-3	1,1-Dichloroethane	43 U	200	43	ug/l	
75-35-4	1,1-Dichloroethylene	40 U	200	40	ug/l	
563-58-6	1,1-Dichloropropene	50 U	200	50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	140 U	400	140	ug/l	
106-93-4	1,2-Dibromoethane	60 U	200	60	ug/l	
107-06-2	1,2-Dichloroethane	44 U	200	44	ug/l	
78-87-5	1,2-Dichloropropane	52 U	200	52	ug/l	
142-28-9	1,3-Dichloropropane	54 U	200	54	ug/l	
594-20-7	2,2-Dichloropropane	49 U	200	49	ug/l	
124-48-1	Dibromochloromethane	40 U	200	40	ug/l	
75-71-8	Dichlorodifluoromethane	100 U	400	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	8900	200	47	ug/l	
10061-01-5	cis-1,3-Dichloropropene	44 U	200	44	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0025-030.0-20131211
Lab Sample ID: FA10890-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	51 U	200	51	ug/l	
95-50-1	o-Dichlorobenzene	43 U	200	43	ug/l	
106-46-7	p-Dichlorobenzene	40 U	200	40	ug/l	
156-60-5	trans-1,2-Dichloroethylene	97.6	200	46	ug/l	I
10061-02-6	trans-1,3-Dichloropropene	42 U	200	42	ug/l	
100-41-4	Ethylbenzene	58 U	200	58	ug/l	
591-78-6	2-Hexanone	400 U	2000	400	ug/l	
87-68-3	Hexachlorobutadiene	100 U	400	100	ug/l	
98-82-8	Isopropylbenzene	40 U	200	40	ug/l	
99-87-6	p-Isopropyltoluene	40 U	200	40	ug/l	
108-10-1	4-Methyl-2-pentanone	450 U	1000	450	ug/l	
74-83-9	Methyl bromide	160 U	400	160	ug/l	
74-87-3	Methyl chloride	100 U	400	100	ug/l	
74-95-3	Methylene bromide	69 U	400	69	ug/l	
75-09-2	Methylene chloride [b]	576	1000	400	ug/l	I
78-93-3	Methyl ethyl ketone	620 U	1000	620	ug/l	
1634-04-4	Methyl Tert Butyl Ether	42 U	200	42	ug/l	
91-20-3	Naphthalene	200 U	1000	200	ug/l	
103-65-1	n-Propylbenzene	45 U	200	45	ug/l	
100-42-5	Styrene	40 U	200	40	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	46 U	200	46	ug/l	
71-55-6	1,1,1-Trichloroethane	40 U	200	40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	48 U	200	48	ug/l	
79-00-5	1,1,2-Trichloroethane	40 U	200	40	ug/l	
87-61-6	1,2,3-Trichlorobenzene	100 U	200	100	ug/l	
96-18-4	1,2,3-Trichloropropane	110 U	400	110	ug/l	
120-82-1	1,2,4-Trichlorobenzene	100 U	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	40 U	400	40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	40 U	400	40	ug/l	
127-18-4	Tetrachloroethylene	64 U	200	64	ug/l	
108-88-3	Toluene	40 U	200	40	ug/l	
79-01-6	Trichloroethylene	63 U	200	63	ug/l	
75-69-4	Trichlorofluoromethane	100 U	400	100	ug/l	
75-01-4	Vinyl chloride	13100	200	88	ug/l	
108-05-4	Vinyl Acetate	630 U	2000	630	ug/l	
	m,p-Xylene	59 U	400	59	ug/l	
95-47-6	o-Xylene	40 U	200	40	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0025-030.0-20131211		
Lab Sample ID:	FA10890-1	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated ICV outside control limits.
(b) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0025-030.0-20131211
Lab Sample ID: FA10890-1
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY058916.D	1	12/16/13	SH	n/a	n/a	GXY2532
Run #2	XY058926.D	10	12/16/13	SH	n/a	n/a	GXY2532

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	PQL	MDL	Units	Q
74-82-8	Methane	1180 [a]	5.0	1.6	ug/l	
74-84-0	Ethane	382	1.0	0.32	ug/l	
74-85-1	Ethene	672	1.0	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0025-030.0-20131211		
Lab Sample ID:	FA10890-1	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
		Percent Solids:	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate [a]	7.8 I	10	3.0	mg/l	5	12/17/13 13:26	AA	EPA 300/SW846 9056A
Sulfide	0.22 U	0.77	0.22	mg/l	1	12/16/13 10:50	LE	SM20 4500S F

(a) Dilution required due to matrix interference.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: CRHE-MW0035-045.0-20131211
Lab Sample ID: FA10890-2
Matrix: AQ - Ground Water
Method: SW846 8260B BY SIM
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z21398.D	1	12/18/13	KW	n/a	n/a	VZ858
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
123-91-1	1,4-Dioxane	3.9	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0035-045.0-20131211
Lab Sample ID: FA10890-2
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I16709.D	1	12/23/13	WV	n/a	n/a	VI249
Run #2	I16767.D	10	12/24/13	WV	n/a	n/a	VI251

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	6.9 U	20	6.9	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.21 U	1.0	0.21	ug/l	
108-86-1	Bromobenzene	0.22 U	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.34 U	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	0.20 U	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	0.21 U	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	0.29 U	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	0.20 U	1.0	0.20	ug/l	
75-00-3	Chloroethane	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.26 U	1.0	0.26	ug/l	
95-49-8	o-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	0.20 U	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.3 U	5.0	1.3	ug/l	
75-15-0	Carbon disulfide [a]	0.49 U	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	0.31 U	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	0.35	1.0	0.21	ug/l	I
75-35-4	1,1-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	0.25 U	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.71 U	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	0.30 U	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	0.22 U	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.26 U	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	0.27 U	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	0.25 U	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.83	1.0	0.24	ug/l	I
10061-01-5	cis-1,3-Dichloropropene	0.22 U	1.0	0.22	ug/l	

U = Not detected MDL - Method Detection Limit
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I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0035-045.0-20131211		
Lab Sample ID:	FA10890-2	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.25 U	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.3	1.0	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.29 U	1.0	0.29	ug/l	
591-78-6	2-Hexanone	2.0 U	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	0.50 U	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.20 U	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	2.3 U	5.0	2.3	ug/l	
74-83-9	Methyl bromide	0.79 U	2.0	0.79	ug/l	
74-87-3	Methyl chloride	0.50 U	2.0	0.50	ug/l	
74-95-3	Methylene bromide	0.34 U	2.0	0.34	ug/l	
75-09-2	Methylene chloride	2.0 U	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	3.1 U	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.21 U	1.0	0.21	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.23 U	1.0	0.23	ug/l	
100-42-5	Styrene	0.20 U	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.23 U	1.0	0.23	ug/l	
71-55-6	1,1,1-Trichloroethane	0.20 U	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.24 U	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	0.20 U	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.56 U	2.0	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.32 U	1.0	0.32	ug/l	
108-88-3	Toluene	0.24	1.0	0.20	ug/l	I
79-01-6	Trichloroethylene	0.31 U	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	477 [b]	10	4.4	ug/l	
108-05-4	Vinyl Acetate	3.1 U	10	3.1	ug/l	
	m,p-Xylene	0.30 U	2.0	0.30	ug/l	
95-47-6	o-Xylene	0.20 U	1.0	0.20	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0035-045.0-20131211		
Lab Sample ID:	FA10890-2	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	98%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	104%	83-118%

(a) Associated ICV outside control limits.
(b) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0035-045.0-20131211
Lab Sample ID: FA10890-2
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY058917.D	1	12/16/13	SH	n/a	n/a	GXY2532
Run #2	XY058927.D	10	12/16/13	SH	n/a	n/a	GXY2532

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	PQL	MDL	Units	Q
74-82-8	Methane	1260 [a]	5.0	1.6	ug/l	
74-84-0	Ethane	6.4	1.0	0.32	ug/l	
74-85-1	Ethene	331	1.0	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0035-045.0-20131211		
Lab Sample ID:	FA10890-2	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
		Percent Solids:	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate [a]	6.0 U	20	6.0	mg/l	10	12/17/13 13:42	AA	EPA 300/SW846 9056A
Sulfide	0.55 I	0.77	0.22	mg/l	1	12/16/13 10:50	LE	SM20 4500S F

(a) Dilution required due to matrix interference.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: CRHE-IW0019I-040.0-20131211
Lab Sample ID: FA10890-3
Matrix: AQ - Ground Water
Method: SW846 8260B BY SIM
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z21399.D	1	12/18/13	KW	n/a	n/a	VZ858
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
123-91-1	1,4-Dioxane	1.0 U	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-IW0019I-040.0-20131211		
Lab Sample ID:	FA10890-3	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I16710.D	5	12/23/13	WV	n/a	n/a	VI249
Run #2	I16768.D	20	12/24/13	WV	n/a	n/a	VI251

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	50 U	130	50	ug/l	
107-02-8	Acrolein	35 U	100	35	ug/l	
107-13-1	Acrylonitrile	10 U	50	10	ug/l	
71-43-2	Benzene	1.1 U	5.0	1.1	ug/l	
108-86-1	Bromobenzene	1.1 U	5.0	1.1	ug/l	
74-97-5	Bromochloromethane	1.1 U	5.0	1.1	ug/l	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/l	
75-25-2	Bromoform	1.7 U	5.0	1.7	ug/l	
104-51-8	n-Butylbenzene	1.0 U	5.0	1.0	ug/l	
135-98-8	sec-Butylbenzene	1.1 U	5.0	1.1	ug/l	
98-06-6	tert-Butylbenzene	1.5 U	5.0	1.5	ug/l	
108-90-7	Chlorobenzene	1.0	5.0	1.0	ug/l	I
75-00-3	Chloroethane	2.5 U	10	2.5	ug/l	
67-66-3	Chloroform	1.3 U	5.0	1.3	ug/l	
95-49-8	o-Chlorotoluene	1.1 U	5.0	1.1	ug/l	
106-43-4	p-Chlorotoluene	1.0 U	5.0	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	6.4 U	25	6.4	ug/l	
75-15-0	Carbon disulfide [a]	2.5 U	10	2.5	ug/l	
56-23-5	Carbon tetrachloride	1.6 U	5.0	1.6	ug/l	
75-34-3	1,1-Dichloroethane	1.1 U	5.0	1.1	ug/l	
75-35-4	1,1-Dichloroethylene	1.9	5.0	1.0	ug/l	I
563-58-6	1,1-Dichloropropene	1.2 U	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	3.6 U	10	3.6	ug/l	
106-93-4	1,2-Dibromoethane	1.5 U	5.0	1.5	ug/l	
107-06-2	1,2-Dichloroethane	1.1 U	5.0	1.1	ug/l	
78-87-5	1,2-Dichloropropane	1.3 U	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	1.3 U	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	1.2 U	5.0	1.2	ug/l	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	2.5 U	10	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethylene	510 [b]	20	4.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.1 U	5.0	1.1	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-IW0019I-040.0-20131211
Lab Sample ID: FA10890-3
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	1.3 U	5.0	1.3	ug/l	
95-50-1	o-Dichlorobenzene	1.1 U	5.0	1.1	ug/l	
106-46-7	p-Dichlorobenzene	1.0 U	5.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	10.8	5.0	1.1	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/l	
100-41-4	Ethylbenzene	1.5 U	5.0	1.5	ug/l	
591-78-6	2-Hexanone	10 U	50	10	ug/l	
87-68-3	Hexachlorobutadiene	2.5 U	10	2.5	ug/l	
98-82-8	Isopropylbenzene	1.0 U	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.0 U	5.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	11 U	25	11	ug/l	
74-83-9	Methyl bromide	3.9 U	10	3.9	ug/l	
74-87-3	Methyl chloride	2.5 U	10	2.5	ug/l	
74-95-3	Methylene bromide	1.7 U	10	1.7	ug/l	
75-09-2	Methylene chloride [c]	18.0	25	10	ug/l	I
78-93-3	Methyl ethyl ketone	16 U	25	16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1 U	5.0	1.1	ug/l	
91-20-3	Naphthalene	5.0 U	25	5.0	ug/l	
103-65-1	n-Propylbenzene	1.1 U	5.0	1.1	ug/l	
100-42-5	Styrene	1.0 U	5.0	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.2 U	5.0	1.2	ug/l	
71-55-6	1,1,1-Trichloroethane	1.0 U	5.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U	5.0	1.2	ug/l	
79-00-5	1,1,2-Trichloroethane	1.0 U	5.0	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	2.8 U	10	2.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.0 U	10	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	1.0 U	10	1.0	ug/l	
127-18-4	Tetrachloroethylene	1.6 U	5.0	1.6	ug/l	
108-88-3	Toluene	1.0 U	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	1.6 U	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	2.5 U	10	2.5	ug/l	
75-01-4	Vinyl chloride	360	5.0	2.2	ug/l	
108-05-4	Vinyl Acetate	16 U	50	16	ug/l	
	m,p-Xylene	1.5 U	10	1.5	ug/l	
95-47-6	o-Xylene	1.0 U	5.0	1.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-IW0019I-040.0-20131211		
Lab Sample ID:	FA10890-3	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	99%	79-125%
2037-26-5	Toluene-D8	97%	100%	85-112%
460-00-4	4-Bromofluorobenzene	104%	105%	83-118%

(a) Associated ICV outside control limits.
(b) Result is from Run# 2
(c) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-IW0019I-040.0-20131211
Lab Sample ID: FA10890-3
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY058918.D	1	12/16/13	SH	n/a	n/a	GXY2532
Run #2	XY058928.D	2	12/16/13	SH	n/a	n/a	GXY2532

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	250 ul	21 Deg. C

CAS No.	Compound	Result	PQL	MDL	Units	Q
74-82-8	Methane	1870 [a]	2.0	0.64	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	2.6	1.0	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-IW0019I-040.0-20131211		
Lab Sample ID:	FA10890-3	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
		Percent Solids:	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate	15.3	10	3.0	mg/l	5	12/17/13 13:58	AA	EPA 300/SW846 9056A
Sulfide	0.23 U	0.78	0.23	mg/l	1	12/16/13 10:50	LE	SM20 4500S F

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Report of Analysis

Client Sample ID: CRHE-MW0029-045.0-20131211
Lab Sample ID: FA10890-4
Matrix: AQ - Ground Water
Method: SW846 8260B BY SIM
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z21400.D	1	12/18/13	KW	n/a	n/a	VZ858
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
123-91-1	1,4-Dioxane	1.3	2.0	1.0	ug/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0029-045.0-20131211
Lab Sample ID: FA10890-4
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I16711.D	20	12/23/13	WV	n/a	n/a	VI249
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
67-64-1	Acetone	200 U	500	200	ug/l	
107-02-8	Acrolein	140 U	400	140	ug/l	
107-13-1	Acrylonitrile	40 U	200	40	ug/l	
71-43-2	Benzene	4.2 U	20	4.2	ug/l	
108-86-1	Bromobenzene	4.4 U	20	4.4	ug/l	
74-97-5	Bromochloromethane	4.5 U	20	4.5	ug/l	
75-27-4	Bromodichloromethane	4.0 U	20	4.0	ug/l	
75-25-2	Bromoform	6.9 U	20	6.9	ug/l	
104-51-8	n-Butylbenzene	4.0 U	20	4.0	ug/l	
135-98-8	sec-Butylbenzene	4.2 U	20	4.2	ug/l	
98-06-6	tert-Butylbenzene	5.9 U	20	5.9	ug/l	
108-90-7	Chlorobenzene	4.0 U	20	4.0	ug/l	
75-00-3	Chloroethane	10 U	40	10	ug/l	
67-66-3	Chloroform	5.3 U	20	5.3	ug/l	
95-49-8	o-Chlorotoluene	4.3 U	20	4.3	ug/l	
106-43-4	p-Chlorotoluene	4.0 U	20	4.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	25 U	100	25	ug/l	
75-15-0	Carbon disulfide [a]	9.9 U	40	9.9	ug/l	
56-23-5	Carbon tetrachloride	6.3 U	20	6.3	ug/l	
75-34-3	1,1-Dichloroethane	4.3 U	20	4.3	ug/l	
75-35-4	1,1-Dichloroethylene	4.0 U	20	4.0	ug/l	
563-58-6	1,1-Dichloropropene	5.0 U	20	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	14 U	40	14	ug/l	
106-93-4	1,2-Dibromoethane	6.0 U	20	6.0	ug/l	
107-06-2	1,2-Dichloroethane	4.4 U	20	4.4	ug/l	
78-87-5	1,2-Dichloropropane	5.2 U	20	5.2	ug/l	
142-28-9	1,3-Dichloropropane	5.4 U	20	5.4	ug/l	
594-20-7	2,2-Dichloropropane	4.9 U	20	4.9	ug/l	
124-48-1	Dibromochloromethane	4.0 U	20	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	10 U	40	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1650	20	4.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	4.4 U	20	4.4	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0029-045.0-20131211		
Lab Sample ID:	FA10890-4	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

VOA 8260 List

CAS No.	Compound	Result	PQL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	5.1 U	20	5.1	ug/l	
95-50-1	o-Dichlorobenzene	4.3 U	20	4.3	ug/l	
106-46-7	p-Dichlorobenzene	4.0 U	20	4.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	31.8	20	4.6	ug/l	
10061-02-6	trans-1,3-Dichloropropene	4.2 U	20	4.2	ug/l	
100-41-4	Ethylbenzene	5.8 U	20	5.8	ug/l	
591-78-6	2-Hexanone	40 U	200	40	ug/l	
87-68-3	Hexachlorobutadiene	10 U	40	10	ug/l	
98-82-8	Isopropylbenzene	4.0 U	20	4.0	ug/l	
99-87-6	p-Isopropyltoluene	4.0 U	20	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	45 U	100	45	ug/l	
74-83-9	Methyl bromide	16 U	40	16	ug/l	
74-87-3	Methyl chloride	10 U	40	10	ug/l	
74-95-3	Methylene bromide	6.9 U	40	6.9	ug/l	
75-09-2	Methylene chloride [b]	61.8	100	40	ug/l	I
78-93-3	Methyl ethyl ketone	62 U	100	62	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.2 U	20	4.2	ug/l	
91-20-3	Naphthalene	20 U	100	20	ug/l	
103-65-1	n-Propylbenzene	4.5 U	20	4.5	ug/l	
100-42-5	Styrene	4.0 U	20	4.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	4.6 U	20	4.6	ug/l	
71-55-6	1,1,1-Trichloroethane	4.0 U	20	4.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	4.8 U	20	4.8	ug/l	
79-00-5	1,1,2-Trichloroethane	4.0 U	20	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	10 U	20	10	ug/l	
96-18-4	1,2,3-Trichloropropane	11 U	40	11	ug/l	
120-82-1	1,2,4-Trichlorobenzene	10 U	20	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.0 U	40	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	4.0 U	40	4.0	ug/l	
127-18-4	Tetrachloroethylene	6.4 U	20	6.4	ug/l	
108-88-3	Toluene	4.0 U	20	4.0	ug/l	
79-01-6	Trichloroethylene	398	20	6.3	ug/l	
75-69-4	Trichlorofluoromethane	10 U	40	10	ug/l	
75-01-4	Vinyl chloride	339	20	8.8	ug/l	
108-05-4	Vinyl Acetate	63 U	200	63	ug/l	
	m,p-Xylene	5.9 U	40	5.9	ug/l	
95-47-6	o-Xylene	4.0 U	20	4.0	ug/l	

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0029-045.0-20131211		
Lab Sample ID:	FA10890-4	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated ICV outside control limits.
(b) Suspected laboratory contaminant.

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CRHE-MW0029-045.0-20131211
Lab Sample ID: FA10890-4
Matrix: AQ - Ground Water
Method: RSKSOP-147/175
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Date Sampled: 12/11/13
Date Received: 12/13/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY058923.D	1	12/16/13	SH	n/a	n/a	GXY2532
Run #2	XY058934.D	10	12/17/13	SH	n/a	n/a	GXY2533

	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	38.0 ml	5.0 ml	500 ul	21 Deg. C
Run #2	38.0 ml	5.0 ml	500 ul	21 Deg. C

CAS No.	Compound	Result	PQL	MDL	Units	Q
74-82-8	Methane	1260 [a]	5.0	1.6	ug/l	
74-84-0	Ethane	15.5	1.0	0.32	ug/l	
74-85-1	Ethene	31.5	1.0	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected MDL - Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CRHE-MW0029-045.0-20131211		
Lab Sample ID:	FA10890-4	**Date Sampled:**	12/11/13
Matrix:	AQ - Ground Water	**Date Received:**	12/13/13
		Percent Solids:	n/a
Project:	Contractors Rd Heavy Equipment Area; KSC, FL		

General Chemistry

Analyte	Result	PQL	MDL	Units	DF	Analyzed	By	Method
Sulfate [a]	6.0 U	20	6.0	mg/l	10	12/17/13 14:13	AA	EPA 300/SW846 9056A
Sulfide	0.48 I	0.77	0.22	mg/l	1	12/16/13 10:50	LE	SM20 4500S F

(a) Dilution required due to matrix interference.

PQL = Practical Quantitation Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < PQL

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST.

4405 Vineland Rd., Suite C15
Orlando, FL 32811
407.425.6700, fax 407.425.0707

Accutest Job #: FA 10890
Accutest Control #:

Client Information

Name: Geosyntec Consultants
Address: 316 South Baylen Street, Suite 201
City: Pensacola, Fl 32502 State: Zip:
Send Report to: JJohnson@Geosyntec.com
Phone #: 850-477-6547

Facility Information

Project Name: Contractors Road Heavy Equipment Area
Location: KSC, FL
Project No.: FR1681
FAX #: 850.477.6707

Analytical Information

	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	ZnAc	H2SO4	Other	None	V8260	V8260SIMDIOX	VRSK1147DGMEE	S	SO4
1	CRHE-MW0025-030.0-20131211	12/11/2013	1800	JKB	GW	13	9	3		3			1	3	3	3	3	1
2	CRHE-MW0035-045.0-20131211	12/11/2013	1504	JKB	GW	13	9	3		3			1	3	3	3	3	1
3	CRHE-IW0019I-040.0-20131211	12/11/2013	1602	JKB	GW	13	9	3		3			1	3	3	3	3	1
4	CRHE-MW0029-045.0-20131211	12/11/2013	1649	JKB	GW	13	9	3		3			1	3	3	3	3	1

Turnaround Information

- [ ] 21 Day Standard — Approved By:
- [X] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): NASA KEDD
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 12/12/13 1120	Received By: 1	11:20 12-12-13	Relinquished By: 2	Date Time: 12-12-13 19:30
Received By: 2	Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:
Received By: 4	Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable ☐
On Ice: ☐ 2.6					

Received By: 2 J. Romar (AISE) 12-13-13

FA10890: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 10890 CLIENT: GEOSYNTEC PROJECT: FA1681

DATE/TIME RECEIVED: 12-13-13 08:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS (ACCUTEST COURIER) GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 12-13-13 REVIEWER SIGNATURE/DATE [signature] 12/13/13

NF 12/10 receipt confirmation 122910.xls

5.1 5

FA10890: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ858-MB	Z21390.D	1	12/17/13	KW	n/a	n/a	VZ858

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	2.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	103%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI249-MB	I16705.D	1	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	6.9	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.22	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.26	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.21	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.20	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.3	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.49	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.30	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.22	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.26	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.27	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.24	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.22	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.23	ug/l	

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI249-MB	I16705.D	1	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.29	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.79	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.34	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	3.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.21	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.23	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.56	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.32	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.1	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI249-MB	I16705.D	1	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI251-MB	I16762.D	1	12/24/13	WV	n/a	n/a	VI251

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-2, FA10890-3

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.24	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.44	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	106%	83-118%

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ858-BS	Z21389.D	1	12/17/13	KW	n/a	n/a	VZ858

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	48.1	96	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	74-125%
2037-26-5	Toluene-D8	101%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI249-BS	I16706.D	1	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	89.7	72	50-147
107-02-8	Acrolein	125	135	108	31-154
107-13-1	Acrylonitrile	125	98.5	79	58-126
71-43-2	Benzene	25	25.6	102	81-122
108-86-1	Bromobenzene	25	25.5	102	80-121
74-97-5	Bromochloromethane	25	24.3	97	76-123
75-27-4	Bromodichloromethane	25	24.3	97	79-123
75-25-2	Bromoform	25	25.7	103	66-123
104-51-8	n-Butylbenzene	25	24.7	99	79-126
135-98-8	sec-Butylbenzene	25	29.1	116	83-133
98-06-6	tert-Butylbenzene	25	27.3	109	80-133
108-90-7	Chlorobenzene	25	26.7	107	82-124
75-00-3	Chloroethane	25	23.7	95	62-144
67-66-3	Chloroform	25	24.2	97	80-124
95-49-8	o-Chlorotoluene	25	27.6	110	81-127
106-43-4	p-Chlorotoluene	25	29.7	119	83-130
110-75-8	2-Chloroethyl vinyl ether	125	123	98	56-122
75-15-0	Carbon disulfide	25	19.6	78	66-148
56-23-5	Carbon tetrachloride	25	27.9	112	76-136
75-34-3	1,1-Dichloroethane	25	24.6	98	81-122
75-35-4	1,1-Dichloroethylene	25	24.9	100	78-137
563-58-6	1,1-Dichloropropene	25	29.5	118	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	24.7	99	64-123
106-93-4	1,2-Dibromoethane	25	24.7	99	75-120
107-06-2	1,2-Dichloroethane	25	24.3	97	75-125
78-87-5	1,2-Dichloropropane	25	24.5	98	76-124
142-28-9	1,3-Dichloropropane	25	24.0	96	80-118
594-20-7	2,2-Dichloropropane	25	28.5	114	74-139
124-48-1	Dibromochloromethane	25	24.9	100	78-122
75-71-8	Dichlorodifluoromethane	25	31.8	127	42-167
156-59-2	cis-1,2-Dichloroethylene	25	26.7	107	78-120
10061-01-5	cis-1,3-Dichloropropene	25	25.4	102	75-118
541-73-1	m-Dichlorobenzene	25	28.8	115	84-125
95-50-1	o-Dichlorobenzene	25	28.6	114	82-124
106-46-7	p-Dichlorobenzene	25	25.3	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.9	100	76-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI249-BS	I16706.D	1	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.4	106	80-120
100-41-4	Ethylbenzene	25	25.5	102	81-121
591-78-6	2-Hexanone	125	110	88	61-129
87-68-3	Hexachlorobutadiene	25	31.1	124	75-142
98-82-8	Isopropylbenzene	25	28.5	114	83-132
99-87-6	p-Isopropyltoluene	25	28.2	113	79-130
108-10-1	4-Methyl-2-pentanone	125	116	93	66-122
74-83-9	Methyl bromide	25	24.5	98	59-143
74-87-3	Methyl chloride	25	27.0	108	50-159
74-95-3	Methylene bromide	25	23.7	95	78-119
75-09-2	Methylene chloride	25	24.7	99	69-135
78-93-3	Methyl ethyl ketone	125	104	83	56-143
1634-04-4	Methyl Tert Butyl Ether	25	23.5	94	72-117
91-20-3	Naphthalene	25	26.0	104	63-132
103-65-1	n-Propylbenzene	25	28.7	115	82-133
100-42-5	Styrene	25	24.6	98	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	26.3	105	77-122
71-55-6	1,1,1-Trichloroethane	25	27.1	108	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	22.5	90	72-120
79-00-5	1,1,2-Trichloroethane	25	22.6	90	76-119
87-61-6	1,2,3-Trichlorobenzene	25	27.6	110	68-131
96-18-4	1,2,3-Trichloropropane	25	23.2	93	77-120
120-82-1	1,2,4-Trichlorobenzene	25	29.7	119	73-129
95-63-6	1,2,4-Trimethylbenzene	25	25.0	100	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.2	97	79-120
127-18-4	Tetrachloroethylene	25	27.4	110	76-135
108-88-3	Toluene	25	24.9	100	80-120
79-01-6	Trichloroethylene	25	26.4	106	81-126
75-69-4	Trichlorofluoromethane	25	20.6	82	71-156
75-01-4	Vinyl chloride	25	28.4	114	69-159
108-05-4	Vinyl Acetate	125	117	94	43-154
	m,p-Xylene	50	56.5	113	79-126
95-47-6	o-Xylene	25	27.0	108	80-127

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI249-BS	I16706.D	1	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	92%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI251-BS	I16761.D	1	12/24/13	WV	n/a	n/a	VI251

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-2, FA10890-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	78-120
75-01-4	Vinyl chloride	25	31.4	126	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	93%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10934-3MS	Z21411.D	1	12/18/13	KW	n/a	n/a	VZ858
FA10934-3MSD	Z21412.D	1	12/18/13	KW	n/a	n/a	VZ858
FA10934-3	Z21403.D	1	12/18/13	KW	n/a	n/a	VZ858

The QC reported here applies to the following samples: **Method:** SW846 8260B BY SIM

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	FA10934-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		50	46.7	93	49.2	98	5	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA10934-3	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	101%	102%	74-125%
2037-26-5	Toluene-D8	99%	99%	98%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10790-6MS	I16727.D	50	12/23/13	WV	n/a	n/a	VI249
FA10790-6MSD	I16728.D	50	12/23/13	WV	n/a	n/a	VI249
FA10790-6	I16717.D	50	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	FA10790-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		6250	3340	53	3610	58	8	50-147/21
107-02-8	Acrolein	ND		6250	7380	118	6960	111	6	31-154/29
107-13-1	Acrylonitrile	ND		6250	4380	70	4900	78	11	58-126/16
71-43-2	Benzene	ND		1250	1200	96	1210	97	1	81-122/14
108-86-1	Bromobenzene	ND		1250	1110	89	1110	89	0	80-121/14
74-97-5	Bromochloromethane	ND		1250	1080	86	1130	90	5	76-123/14
75-27-4	Bromodichloromethane	ND		1250	1110	89	1120	90	1	79-123/19
75-25-2	Bromoform	ND		1250	976	78	1020	82	4	66-123/21
104-51-8	n-Butylbenzene	ND		1250	1090	87	1070	86	2	79-126/16
135-98-8	sec-Butylbenzene	ND		1250	1290	103	1280	102	1	83-133/16
98-06-6	tert-Butylbenzene	ND		1250	1220	98	1240	99	2	80-133/16
108-90-7	Chlorobenzene	ND		1250	1200	96	1210	97	1	82-124/14
75-00-3	Chloroethane	ND		1250	1110	89	1160	93	4	62-144/20
67-66-3	Chloroform	ND		1250	1150	92	1150	92	0	80-124/15
95-49-8	o-Chlorotoluene	ND		1250	1270	102	1260	101	1	81-127/15
106-43-4	p-Chlorotoluene	ND		1250	1330	106	1320	106	1	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		6250	294	5*	240	4*	20	56-122/23
75-15-0	Carbon disulfide	ND		1250	966	77	972	78	1	66-148/23
56-23-5	Carbon tetrachloride	ND		1250	1270	102	1250	100	2	76-136/23
75-34-3	1,1-Dichloroethane	ND		1250	1150	92	1160	93	1	81-122/15
75-35-4	1,1-Dichloroethylene	ND		1250	1130	90	1160	93	3	78-137/18
563-58-6	1,1-Dichloropropene	ND		1250	1350	108	1340	107	1	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1050	84	1140	91	8	64-123/18
106-93-4	1,2-Dibromoethane	ND		1250	1030	82	1090	87	6	75-120/13
107-06-2	1,2-Dichloroethane	ND		1250	1090	87	1130	90	4	75-125/14
78-87-5	1,2-Dichloropropane	ND		1250	1150	92	1180	94	3	76-124/14
142-28-9	1,3-Dichloropropane	ND		1250	1050	84	1120	90	6	80-118/13
594-20-7	2,2-Dichloropropane	ND		1250	1160	93	1200	96	3	74-139/17
124-48-1	Dibromochloromethane	ND		1250	1030	82	1070	86	4	78-122/19
75-71-8	Dichlorodifluoromethane	ND		1250	1500	120	1520	122	1	42-167/19
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1160	93	1190	95	3	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1060	85	1090	87	3	75-118/23
541-73-1	m-Dichlorobenzene	ND		1250	1270	102	1270	102	0	84-125/14
95-50-1	o-Dichlorobenzene	ND		1250	1240	99	1250	100	1	82-124/14
106-46-7	p-Dichlorobenzene	ND		1250	1110	89	1110	89	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		1250	1200	96	1180	94	2	76-127/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10790-6MS	I16727.D	50	12/23/13	WV	n/a	n/a	VI249
FA10790-6MSD	I16728.D	50	12/23/13	WV	n/a	n/a	VI249
FA10790-6	I16717.D	50	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	FA10790-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1150	92	1190	95	3	80-120/22
100-41-4	Ethylbenzene	ND		1250	1160	93	1160	93	0	81-121/14
591-78-6	2-Hexanone	ND		6250	4090	65	4580	73	11	61-129/18
87-68-3	Hexachlorobutadiene	ND		1250	1370	110	1370	110	0	75-142/19
98-82-8	Isopropylbenzene	ND		1250	1220	98	1250	100	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		1250	1220	98	1220	98	0	79-130/16
108-10-1	4-Methyl-2-pentanone	ND		6250	4800	77	5300	85	10	66-122/16
74-83-9	Methyl bromide	ND		1250	1110	89	1120	90	1	59-143/19
74-87-3	Methyl chloride	ND		1250	1400	112	1480	118	6	50-159/19
74-95-3	Methylene bromide	ND		1250	1030	82	1070	86	4	78-119/14
75-09-2	Methylene chloride	157	J	1250	1370	97	1400	99	2	69-135/16
78-93-3	Methyl ethyl ketone	ND		6250	3770	60	4100	66	8	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND		1250	859	69*	962	77	11	72-117/14
91-20-3	Naphthalene	ND		1250	1000	80	1100	88	10	63-132/25
103-65-1	n-Propylbenzene	ND		1250	1300	104	1290	103	1	82-133/15
100-42-5	Styrene	ND		1250	1050	84	1070	86	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	14.4	J	1250	1170	92	1200	95	3	77-122/19
71-55-6	1,1,1-Trichloroethane	ND		1250	1230	98	1250	100	2	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	987	79	1040	83	5	72-120/14
79-00-5	1,1,2-Trichloroethane	3200		1250	3870	54* [a]	3960	61* [a]	2	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1170	94	1230	98	5	68-131/25
96-18-4	1,2,3-Trichloropropane	ND		1250	1020	82	1050	84	3	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND		1250	1260	101	1280	102	2	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND		1250	1090	87	1090	87	0	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		1250	1070	86	1060	85	1	79-120/19
127-18-4	Tetrachloroethylene	ND		1250	1160	93	1150	92	1	76-135/16
108-88-3	Toluene	ND		1250	1170	94	1180	94	1	80-120/14
79-01-6	Trichloroethylene	ND		1250	1200	96	1180	94	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		1250	978	78	1000	80	2	71-156/21
75-01-4	Vinyl chloride	ND		1250	1320	106	1380	110	4	69-159/18
108-05-4	Vinyl Acetate	ND		6250	5560	89	5940	95	7	43-154/14
	m,p-Xylene	ND		2500	2510	100	2530	101	1	79-126/15
95-47-6	o-Xylene	ND		1250	1170	94	1190	95	2	80-127/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10790-6MS	I16727.D	50	12/23/13	WV	n/a	n/a	VI249
FA10790-6MSD	I16728.D	50	12/23/13	WV	n/a	n/a	VI249
FA10790-6	I16717.D	50	12/23/13	WV	n/a	n/a	VI249

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Surrogate Recoveries	MS	MSD	FA10790-6	Limits
1868-53-7	Dibromofluoromethane	101%	101%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	97%	79-125%
2037-26-5	Toluene-D8	92%	93%	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	104%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10935-5MS	I16770.D	50	12/24/13	WV	n/a	n/a	VI251
FA10935-5MSD	I16771.D	50	12/24/13	WV	n/a	n/a	VI251
FA10935-5	I16775.D	50	12/24/13	WV	n/a	n/a	VI251

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA10890-2, FA10890-3

CAS No.	Compound	FA10935-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	ND		1250	1220	98	1180	94	3	78-120/15
75-01-4	Vinyl chloride	ND		1250	1380	110	1420	114	3	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FA10935-5	Limits
1868-53-7	Dibromofluoromethane	101%	98%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	99%	79-125%
2037-26-5	Toluene-D8	92%	93%	98%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	103%	83-118%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2532-MB	XY058899.D	1	12/16/13	SH	n/a	n/a	GXY2532

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2533-MB	XY058932.D	1	12/17/13	SH	n/a	n/a	GXY2533

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-4

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2532-BS	XY058900.D	1	12/16/13	SH	n/a	n/a	GXY2532

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	111	103	61-144
74-84-0	Ethane	219	226	103	64-143
74-85-1	Ethene	290	300	103	64-141

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2533-BS	XY058933.D	1	12/17/13	SH	n/a	n/a	GXY2533

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	111	103	61-144

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10834-3MS	XY058922.D	1	12/16/13	SH	n/a	n/a	GXY2532
FA10834-3	XY058907.D	1	12/16/13	SH	n/a	n/a	GXY2532

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	FA10834-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	7.4		108	130	114	61-144
74-84-0	Ethane	1.0 U		219	250	114	64-143
74-85-1	Ethene	1.0 U		290	330	114	64-141

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10933-2MS	XY058958.D	10	12/17/13	SH	n/a	n/a	GXY2533
FA10933-2	XY058935.D	1	12/17/13	SH	n/a	n/a	GXY2533
FA10933-2	XY058954.D	10	12/17/13	SH	n/a	n/a	GXY2533

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-4

CAS No.	Compound	FA10933-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
74-82-8	Methane	3050 [a]		1080	4500	134	61-144

(a) Result is from Run #2.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10834-5DUP	XY058921.D	1	12/16/13	SH	n/a	n/a	GXY2532
FA10834-5	XY058911.D	1	12/16/13	SH	n/a	n/a	GXY2532

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-1, FA10890-2, FA10890-3, FA10890-4

CAS No.	Compound	FA10834-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	29.4		31.0		5	33
74-84-0	Ethane	1.0 U		ND		nc	20
74-85-1	Ethene	1.0 U		ND		nc	19

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA10890
Account: GSYFLP Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA10933-2DUP	XY058957.D	10	12/17/13	SH	n/a	n/a	GXY2533
FA10933-2	XY058935.D	1	12/17/13	SH	n/a	n/a	GXY2533
FA10933-2	XY058954.D	10	12/17/13	SH	n/a	n/a	GXY2533

The QC reported here applies to the following samples: **Method:** RSKSOP-147/175

FA10890-4

CAS No.	Compound	FA10933-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
74-82-8	Methane	3050 [a]		3900		24	33

(a) Result is from Run #2.

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA10890
Account: GSYFLP - Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP23125/GN59367	2.0	0.0	mg/l	50	50.6	101.2	90-110%
Fluoride	GP23125/GN59367	0.20	0.0	mg/l	2.5	2.33	93.2	90-110%
Nitrogen, Nitrate	GP23125/GN59367	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrite	GP23125/GN59367	0.10	0.0	mg/l	2.5	2.31	92.4	90-110%
Sulfate	GP23125/GN59367	2.0	0.0	mg/l	50	50.3	100.6	90-110%
Sulfide	GN59331	1.0	0.0	mg/l	10.4	10.0	96.2	76-112%

Associated Samples:
Batch GN59331: FA10890-1, FA10890-2, FA10890-3, FA10890-4
Batch GP23125: FA10890-1, FA10890-2, FA10890-3, FA10890-4
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA10890
Account: GSYFLP - Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP23125/GN59367	FA10701-1	mg/l	2.1	50	51.6	99.0	90-110%
Fluoride	GP23125/GN59367	FA10701-1	mg/l	0.20	2.5	2.6	96.0	90-110%
Nitrogen, Nitrate	GP23125/GN59367	FA10701-1	mg/l	0.48	2.5	3.1	104.8	90-110%
Nitrogen, Nitrite	GP23125/GN59367	FA10701-1	mg/l	0.050 U	2.5	2.3	92.0	90-110%
Sulfate	GP23125/GN59367	FA10701-1	mg/l	22.8	50	71.3	97.0	90-110%
Sulfide	GN59331	FA10834-1	mg/l	3.5	8.00	12.3	110.0	76-112%

Associated Samples:
Batch GN59331: FA10890-1, FA10890-2, FA10890-3, FA10890-4
Batch GP23125: FA10890-1, FA10890-2, FA10890-3, FA10890-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA10890
Account: GSYFLP - Geosyntec Consultants
Project: Contractors Rd Heavy Equipment Area; KSC, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP23125/GN59367	FA10701-1	mg/l	2.1	50	51.4	0.4	20%
Fluoride	GP23125/GN59367	FA10701-1	mg/l	0.20	2.5	2.6	0.0	20%
Nitrogen, Nitrate	GP23125/GN59367	FA10701-1	mg/l	0.48	2.5	3.1	0.0	20%
Nitrogen, Nitrite	GP23125/GN59367	FA10701-1	mg/l	0.050 U	2.5	2.3	0.0	20%
Sulfate	GP23125/GN59367	FA10701-1	mg/l	22.8	50	71.3	0.0	20%
Sulfide	GN59331	FA10834-1	mg/l	3.5	8.16	12.6	2.6	34%

Associated Samples:
Batch GN59331: FA10890-1, FA10890-2, FA10890-3, FA10890-4
Batch GP23125: FA10890-1, FA10890-2, FA10890-3, FA10890-4
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SiREM
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130 Research Lane, Ste 2
Guelph ON N1G 5G3
(519) 822-2265

Certificate of Analysis: Gene-Trac® *Dehalococcoides* Assay

Customer: Jill Johnson, Geosyntec Consultants
Project: CRHE
Customer Reference: FR1681

SiREM Reference: S-3047
Report Date: 31-Dec-13
Data Files: MyiQ-DHC-QPCR-1071
MyiQ-DB-DHC-QPCR-0433

Table 1a: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent Dhc *	*Dehalococcoides* Enumeration/Liter **
CRHE-MW0025-030.0-20131211	DHC-9878	11-Dec-13	Groundwater	2 - 6 %	2×10^7
CRHE-MW0035-045.0-20131211	DHC-9879	11-Dec-13	Groundwater	2 - 7 %	5×10^7
CRHE-IW0019I-040.0-20131211	DHC-9880	11-Dec-13	Groundwater	2 - 7 %	2×10^7
CRHE-MW0029-045.0-20131211	DHC-9881	11-Dec-13	Groundwater	2 - 4 %	1×10^7

Notes:

* Percent *Dehalococcoides* (Dhc) in microbial population. This value is calculated by dividing the number of Dhc 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample. Range represents normal variation in Dhc enumeration.

** Based on quantification of Dhc 16S rRNA gene copies. Dhc are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc cells present in the sample.

J The associated value is an estimated quantity between the method detection limit and quantitation limit.
U Not detected, associated value is the quantification limit.
B Analyte was also detected in the method blank.
NA Not applicable as *Dehalococcoides* not detected and/or quantifiable DNA not extracted from the sample.
I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.
E Extracted genomic DNA was not detected in sample.

Analyst: J. Wilkinson
Jennifer Wilkinson
Senior Laboratory Technician

Approved: Ximena Druar
Ximena Druar, B.Sc.
Genetic Testing Coordinator

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Certificate of Analysis: Gene-Trac® VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Jill Johnson, Geosyntec Consultants

Project: CRHE

Customer Reference: FR1681

SiREM Reference: S-3047

Report Date: 31-Dec-13

Data Files: MyiQ-VC-QPCR-0612
MyiQ-VC-QPCR-0613
VC-QPCR-check-gel-0626
VC-QPCR-check-gel-0627

Table 1b: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent *vcrA* *	Vinyl Chloride Reductase (*vcrA*) Gene Copies/Liter
CRHE-MW0025-030.0-20131211	VCR-4373	11-Dec-13	Groundwater	0.4 - 1 %	3×10^6
CRHE-MW0035-045.0-20131211	VCR-4374	11-Dec-13	Groundwater	1 - 4 %	3×10^7
CRHE-IW0019I-040.0-20131211	VCR-4398	11-Dec-13	Groundwater	NA	3×10^3 U
CRHE-MW0029-045.0-20131211	VCR-4376	11-Dec-13	Groundwater	0.9 - 3 %	8×10^6

Notes:

* Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA)* gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA* .

J The associated value is an estimated quantity between the method detection limit and quantitation limit.
U Not detected, associated value is the quantification limit.
B Analyte was also detected in the method blank.
NA Not applicable as *vcrA* not detected and/or quantifiable DNA not extracted from the sample.
I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.
C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.

Analyst: J. Wilkinson
Jennifer Wilkinson
Senior Laboratory Technician

Approved: Ximena Druar
Ximena Druar, B.Sc.
Genetic Testing Coordinator

Table 2: Detailed Test Parameters, Gene-Trac Test Reference S-3047

Customer Sample ID	CRHE-MW0025-030.0-20131211	CRHE-MW0035-045.0-20131211	CRHE-IW0019I-040.0-20131211	CRHE-MW0029-045.0-20131211
SiREM Dhc Sample ID	DHC-9878	DHC-9879	DHC-9880	DHC-9881
SiREM *vcrA* Sample ID	VCR-4373	VCR-4374	VCR-4398	VCR-4376
Date Received	16-Dec-13	16-Dec-13	16-Dec-13	16-Dec-13
Sample Temperature	11 ºC	11 ºC	11 ºC	11 ºC
Filtration Date	19-Dec-13	19-Dec-13	19-Dec-13	19-Dec-13
Volume Used for DNA Extraction	500 mL	200 mL	500 mL	500 mL
DNA Extraction Date	19-Dec-13	19-Dec-13	19-Dec-13	19-Dec-13
DNA Concentration in Sample	1721 ng/L	3983 ng/L	1491 ng/L	1784 ng/L
PCR Amplifiable DNA	Detected	Detected	Detected	Detected
Dhc qPCR Date Analyzed	24-Dec-13	24-Dec-13	24-Dec-13	24-Dec-13
***vcrA* qPCR Date Analyzed**	30-Dec-13	30-Dec-13	30-Dec-13	30-Dec-13
Laboratory Controls (see Tables 3 & 4)	Passed	Passed	Passed	Passed
Comments	- -	- -	- -	- -

Notes:

Refer to Tables 3 & 4 for detailed results of controls.

°C = degrees Celsius

DNA = Deoxyribonucleic acid

PCR = polymerase chain reaction

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

ng/L = nanograms per liter

mL = milliliters

vcrA = vinyl chloride reductase

Table 3: Gene-Trac Dhc Control Results, Test Reference S-3047

Laboratory Control	Analysis Date	Control Description	Spiked Dhc 16S rRNA Gene Copies per Liter	Recovered Dhc 16S rRNA Gene Copies per Liter	Comments
Positive Control Low Concentration	24-Dec-13	qPCR with KB1 genomic DNA (CSLD-0709)	1.4×10^5	8.2×10^4	--
Positive Control High Concentration	24-Dec-13	qPCR with KB1 genomic DNA (CSHD-0709)	1.5×10^7	1.0×10^7	--
DNA Extraction Blank	24-Dec-13	DNA extraction sterile water (FB-2088)	0	2.6×10^3 U	--
Negative Control	24-Dec-13	Tris Reagent Blank (TBD-0668)	0	2.6×10^3 U	--

Notes:

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

Table 4: Gene-Trac VC Control Results, Test Reference S-3047

Laboratory Control	Analysis Date	Control Description	Spiked *vcrA* reductase Gene Copies per Liter	Recovered *vcrA* reductase Gene Copies per Liter	Comments
Positive Control Low Concentration	30-Dec-13	qPCR with KB1 genomic DNA (CSLV-0480)	7.5×10^4	5.2×10^4	--
Positive Control High Concentration	30-Dec-13	qPCR with KB1 genomic DNA (CSHV-0480)	1.2×10^7	6.1×10^6	--
Negative Control	30-Dec-13	Tris Reagent Blank (TBV-0451)	0	2.4×10^3 J	See Note 1
Positive Control Low Concentration	30-Dec-13	qPCR with KB1 genomic DNA (CSLV-0481)	7.5×10^4	5.9×10^4	--
Positive Control High Concentration	30-Dec-13	qPCR with KB1 genomic DNA (CSHV-0481)	1.2×10^7	7.6×10^6	--
DNA Extraction Blank	30-Dec-13	DNA extraction sterile water (FB-2088)	0	2.6×10^3 U	--
Negative Control	30-Dec-13	Tris Reagent Blank (TBV-0452)	0	2.6×10^3 U	--

Notes:

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

vcrA = vinyl chloride reductase

[1]Acceptable as test results for relevant samples are greater than 1 order of magnitude above Tris Reagent Blank test result.

SiREM

Chain-of-Custody Form

siremlab.com

130 Research Lane, Ste 2
Guelph ON, Canada N1G 5G3
(519) 822-2265

Lab # S-3047

Project Name: CRHE	Project #: FR1681
Project Manager: Jill Johnson	
Email: jjohnson@geosyntec.com	
Company: Geosyntec Consultants	
Address: 316 South Baylen St., Suite 201	
Pensacola, FL 32502	
Phone #: 850-477-6547	Fax #: 850-477-6707
Sampler's Signature: E. Lawson for Joseph Bartlett	Sampler's Printed Name: Joseph Bartlett

Analysis

Preservative: DHc and vcrA

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Preservative	Other Information
CRHE-MW0025-030.0-20131211		12/11/13	1800	GW	1	1	
CRHE-MW0035-045.0-20131211		12/11/13	1504	GW	1	1	
CRHE-IW0019I-040.0-20131211		12/11/13	1602	GW	1	1	
CRHE-MW0029-045.0-20131211		12/11/13	1649	GW	1	1	

Sample Receipt

Cooler Condition: Good

Cooler Temperature: 11°C

Custody Seals: Yes ☐ No ☒

Invoice Information

P.O. #

Bill To:

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: E. Lawson	Signature: Fed Ex	Signature:	Signature: J. Wilkinson	Signature:	Signature:
Printed Name: Emily M Lawson	Printed Name:	Printed Name:	Printed Name: J. Wilkinson	Printed Name:	Printed Name:
Firm: Geosyntec	Firm:	Firm:	Firm: SiREM	Firm:	Firm:
Date/Time: 12/12/13 1330	Date/Time:	Date/Time:	Date/Time: 12/16/13 1420	Date/Time:	Date/Time:

Distribution: White - Return to Originator: Yellow - Lab Copy: Pink - Retained by Client

In the absence of an executed agreement, submission of samples to SiREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SiREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.

APPENDIX N

SELECTED SITE PHOTOGRAPHS
(electronic copy only)

GEOSYNTEC CONSULTANTS
Photographic Record

Client: NASA	Project Number: FR1681
Site Name: CRHE Area	Site Location: KSC

Photograph 1	
Date: June 2010	
Direction: South	
Comments: DPT drill rig adjacent to K6-1996H at DPT0105.	

GEOSYNTEC CONSULTANTS

Photographic Record

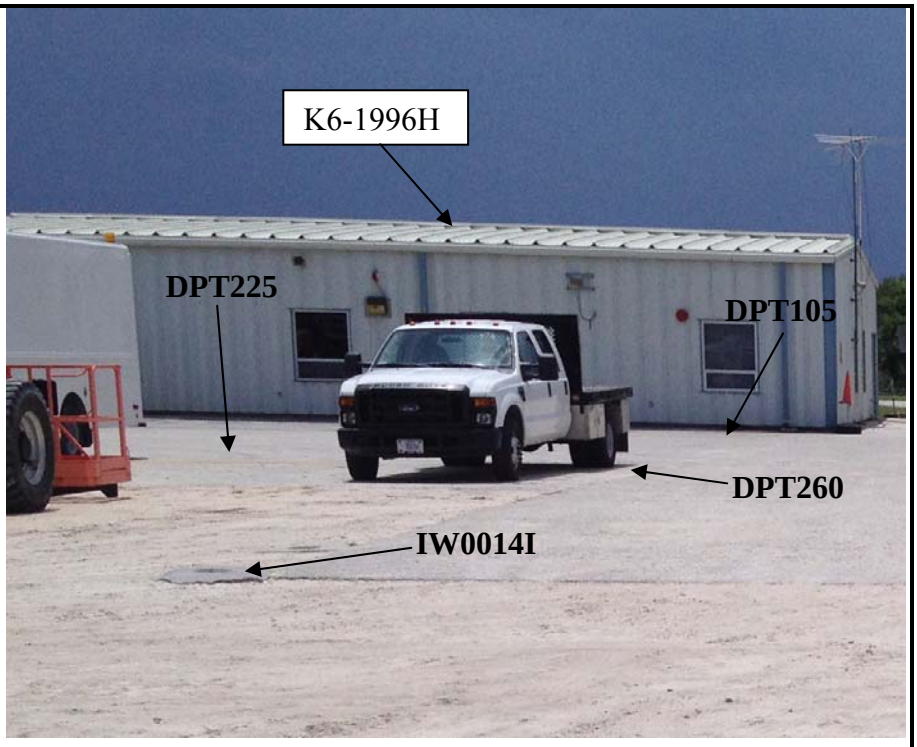
Geosyntec consultants

Client: NASA	Project Number: FR1681
Site Name: CRHE Area	Site Location: KSC

Photograph 2	Date: June 2013	Direction: West to North from left to right	Comments: CRHE laydown yard

GEOSYNTEC CONSULTANTS
Photographic Record

Client: NASA	Project Number: FR1681
Site Name: CRHE Area	Site Location: KSC

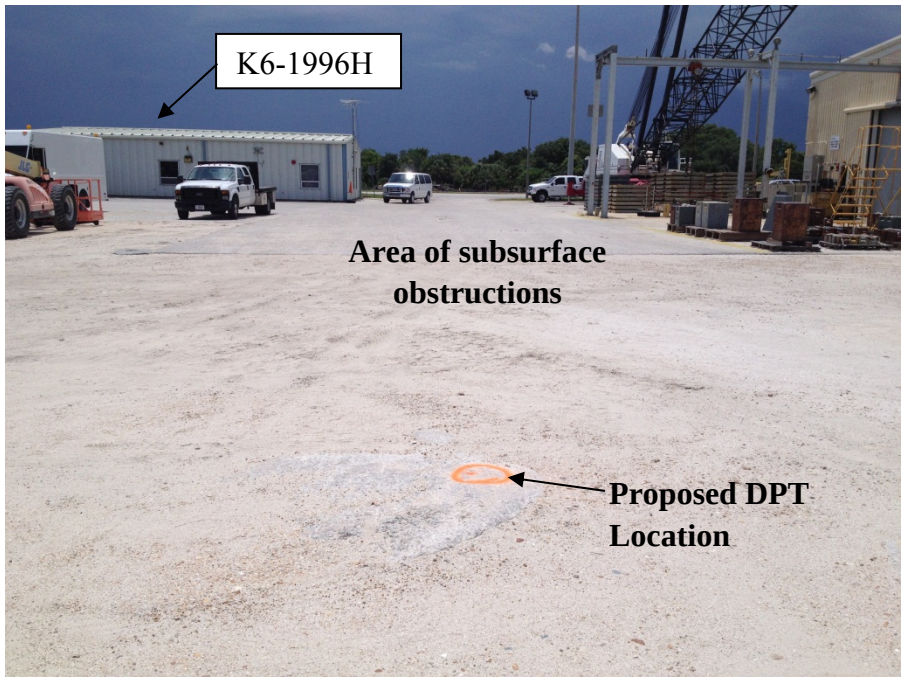
Photograph 3 Date: December 2011 Direction: East Comments: K6-1996H showing approximate DPT and monitoring well locations in immediate vicinity.	

Photograph 2 Date: December 2011 Direction: N/A Comments: Sonic drilling activities in the source zone (SB006).	

GEOSYNTEC CONSULTANTS
Photographic Record

Client: NASA	Project Number: FR1681
Site Name: CRHE Area	Site Location: KSC

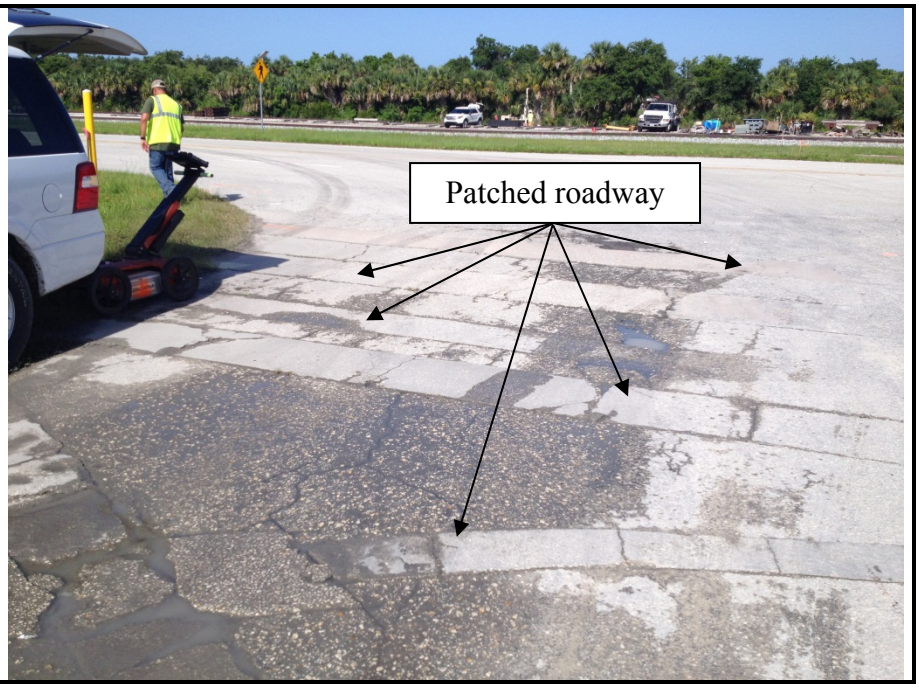
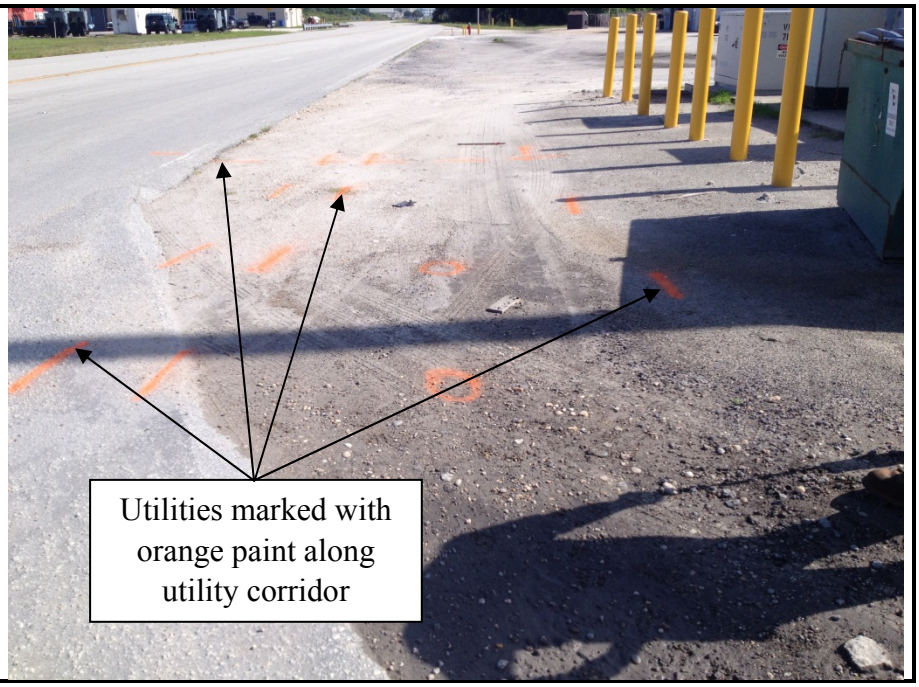
Photograph 4	
Date: June 2013	
Direction: West	
Comments: Wetlands west of the railroad tracks and DPT0243.	

Photograph 5	
Date: June 2013	
Direction: West	
Comments: Area of subsurface obstructions in driveway leading to the laydown yard from Contractor's Road. Refusal was hit within one foot of the ground surface when attempting the proposed DPT groundwater location within the orange circle.	

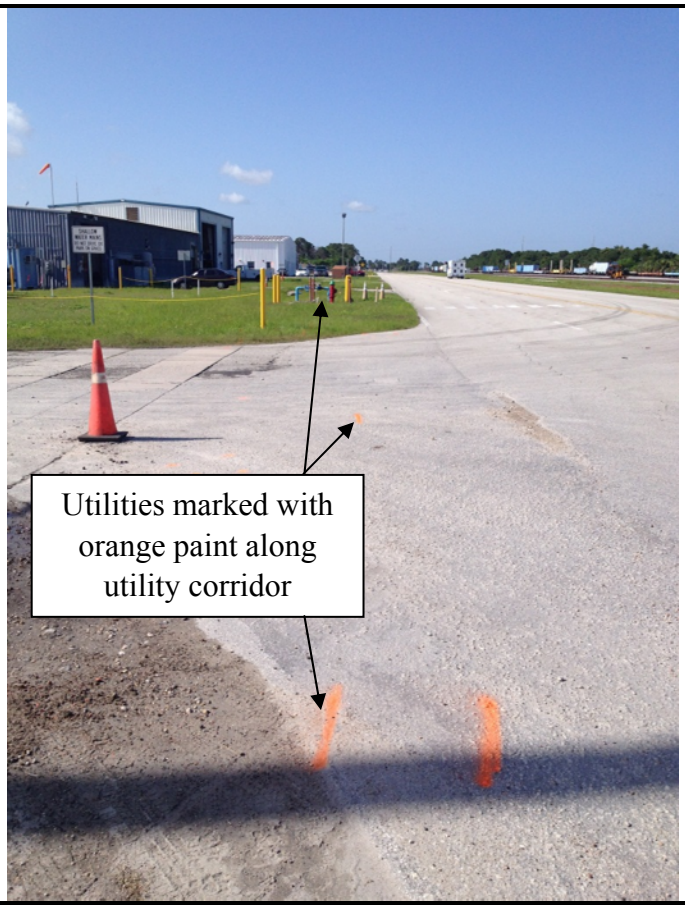
GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: NASA	Project Number: FR1681
Site Name: CRHE Area	Site Location: KSC

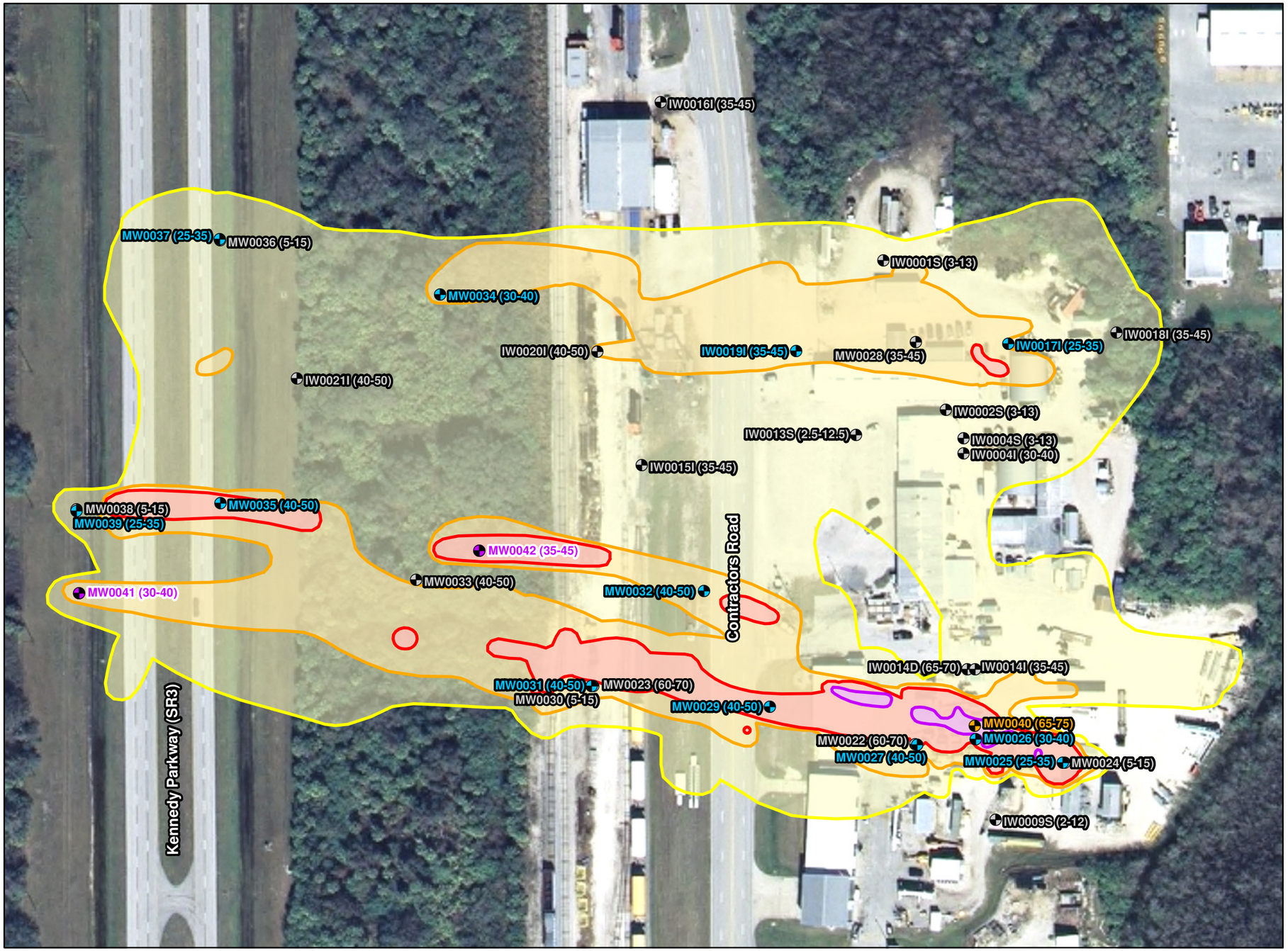
Photograph 6 Date: June 2013 Direction: West Comments: Utility corridor through CRHE Area driveway south of DPT135 and north of DPT127. Patched roadway indicating subsurface utilities, which were verified by the utility locators.	
Photograph 7 Date: June 2013 Direction: North Comments: Utility corridor north of CRHE Area driveway north of DPT135. Orange paint represents utility lines running parallel with Contractor's Road.	

GEOSYNTEC CONSULTANTS
Photographic Record

Photograph 8	
Date: June 2013	
Direction: South	
Comments: Utility corridor through and south of CRHE Area driveway south of DPT135. Orange paint represents utility lines running parallel with Contractor's Road.	

APPENDIX O

INTERIM GROUNDWATER MONITORING PLAN



N

120 60 0 120

Feet

Legend

- Proposed Monitoring Well Location (Screen Interval)
- Intermediate Monitoring Well Location (Screen Interval)
- Deep Monitoring Well Location (Screen Interval)
- Monitoring Well - Not Part of Interim Groundwater Sampling Plan (Screen Interval)
- Low Concentration Plume
- High Concentration Plume
- Hot Spot
- 1% TCE Solubility Plume

Note:
1. Screen interval is presented in feet, below land surface (ft, BLS).

Path: {Titusville-01\Data\}P:\0GIS\FR1681_CRHE\MXDs\MAR2015\Proposed_MW_MARCH2015.mxd 25 March 2015 MAH

Figure 38
Proposed Monitoring Well Sampling Locations

Appendix O - Interim Groundwater Monitoring Plan

Well ID	Screened Interval (ft BLS)	Analytes	Sampling Frequency
CRHE-IW0017I	25 to 35	VOCs	Annual**
CRHE-IW0019I	35 to 45	VOCs	
CRHE-MW0025	25 to 35	VOCs; 1,4-D	
CRHE-MW0026	30 to 40	VOCs; 1,4-D	
CRHE-MW0027	40 to 50	VOCs	
CRHE-MW0029	40 to 50	VOCs; 1,4-D	
CRHE-MW0031	40 to 50	VOCs	
CRHE-MW0032	40 to 50	VOCs	
CRHE-MW0034	30 to 40	VOCs	
CRHE-MW0035	40 to 50	VOCs; 1,4-D	
CRHE-MW0037	25 to 35	VOCs	
CRHE-MW0039	25 to 35	VOCs	
CRHE-MW0040	65 to 75	VOCs	
CRHE-MW0041*	30 to 40	VOCs	
CRHE-MW0042*	35 to 45	VOCs	

Notes:
*Proposed monitoring wells

VOCs = Trichloroethene; cis-1,2-dichloroethane; trans-1,2-dichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; Vinyl Chloride; Acetone; Benzene; Bromodichloromethane; Chlorobenzene; Chloroform; Dibromochloromethane; Dichlorodifluromethane; Methylene Chloride; and Toluene

1,4-D = 1,4-dioxane

**Sampling will be conduct concurrently with interim measures implementation performance monitoring.

APPENDIX P

DOCUMENT REVISION LOG

Site Name: Contractor's Road Heavy Equipment (CRHE) Area (SWMU055)

Document Name: CMI Progress Report

Original Document Date: August 2015

Date	Description of Revision